Planetary Tables in the Dresden Codex of the Maya

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Volume II. Graphs of Movements of the Planets for Relevant Dates

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Volume I. Analysis of Glyphic Texts
Volume II. Graphs of Movements of the Planets for Relevant Dates
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Introduction to the Appendices

The graphs in these appendices follow a common format. For each date graphed, movements of the five visible planets are shown for 30 days on each side of their central date, at intervals usually of 5 days. This gives more context, makes it easier to see whether observers are likely to have noticed one planet vs. another of them, and when they were free to choose their dates, also makes it clearer whether a date they chose was as good as most others would have been, purely from the astronomical point of view.

Of course, if dates the Maya were using were fixed by some other purpose, then they could not choose a best date for a particular kind of observation, they could only decide, for the fixed date, what might be most salient, most worthy of note in limited space.

When they did have freedom to choose dates, the choice can of course have been dictated by non-astronomical factors as well, such as the symbolic value of the day name in the Tzolk'in cycle, the most important cycle for ritual purposes.

Dates on the horizontal axis of the graphs are Gregorian, and the full dates spelled out in the legend at the lower right include the Gregorian uppermost, then Julian, then Mayan. In the volume of analysis, all dates are given in Julian, to facilitate use of astronomical reference materials. Differences between the two are only a few days in the time period we are mostly considering.

A few of the graphs cover a time span of a table from the Dresden Codex, and so the date given in the legend at the bottom will be either the leftmost along the horizontal axis, or the rightmost. Vertical lines below them mark those dates in these exceptional cases. Otherwise, the date in the legend at the lower right will be the middle date along the horizontal axis.

Appendices – Astronomical Graphs in Volume 2

Introduction to the Appendices
A. 69 Stations of the Eclipse Table from 9.16.4.10.8, 12 Lamat 1 Muwaan, 755 November 8
B. 28 Stations of the Serpent Almanac from 9.12.14.11.12, 4 Eb 10 Muwaan, 686 December 4
C. 18 Stations of pp.31a-39a starting from 9.0.15.7.3, 13 Ak'bal 1 Pax, 451 February 12
D. 20 Stations of the Venus Table from 10.15.4.2.0, 1 Ajaw 18 Uo, 1129 December 6
E. Astronomy at some dates for-“Fire Enters the House” and “Censing”
F. Some 819-day-count stations just after stationary points of Jupiter.
G. The date “9 Ik' ” in classical monumental texts

Appendix A.

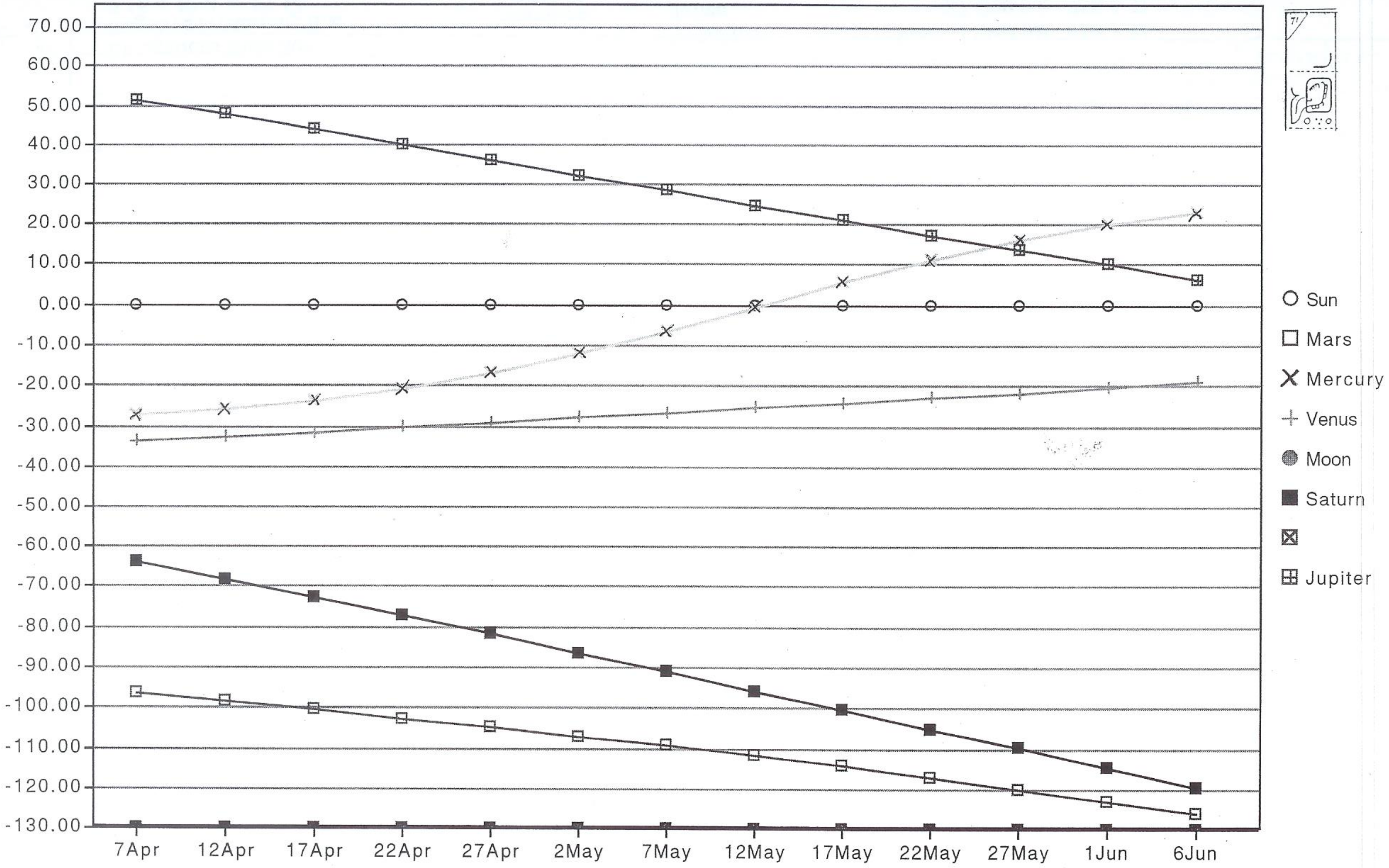
The 69 Stations of the Dresden Codex Eclipse Table

Starting the Table at

9.16.4.10.8 12 Lamat 1 Muwaan 755 November 8 (Julian)

The base date long count is reached by the Long Reckoning in the Preface.
The last day is confirmed by the picture and astronomy, since Venus did indeed reach conjunction with the Sun on that day.
The text references to planets work well for this starting date. Initial hypotheses were developed from this part of the data.

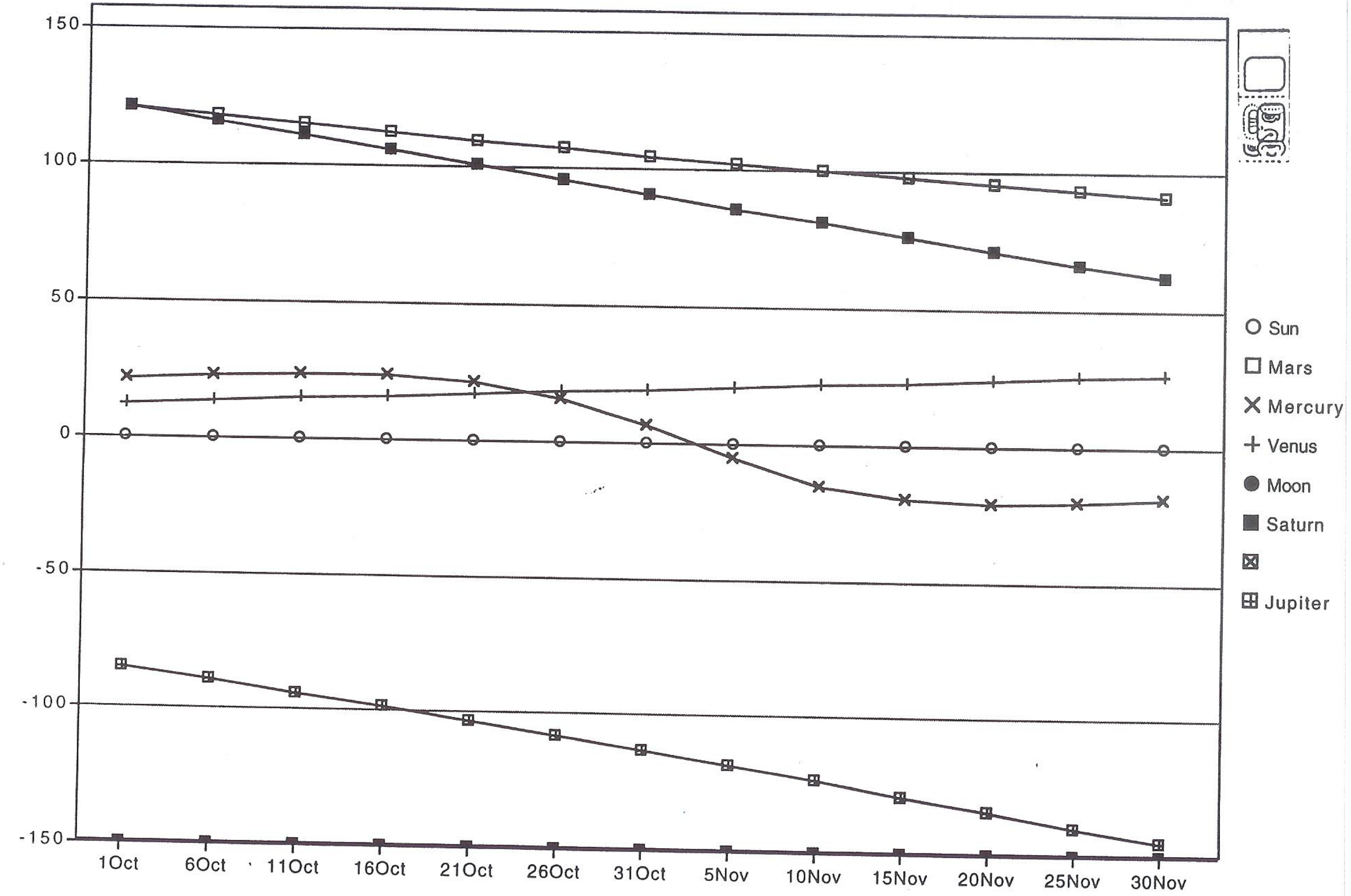
This starting date for the Eclipse Table is standard in the literature.



#1

Elongations from Sun.
Negative is Morning Star.
9.16.4.10.8 + 8.17

Gregorian		Mon 7 May 756 A.D.
Julian		3 May 756 A.D.
Mayan	9.16.5.1.5	7 Chicchan 13 Zec
Correlation Constant		584,285

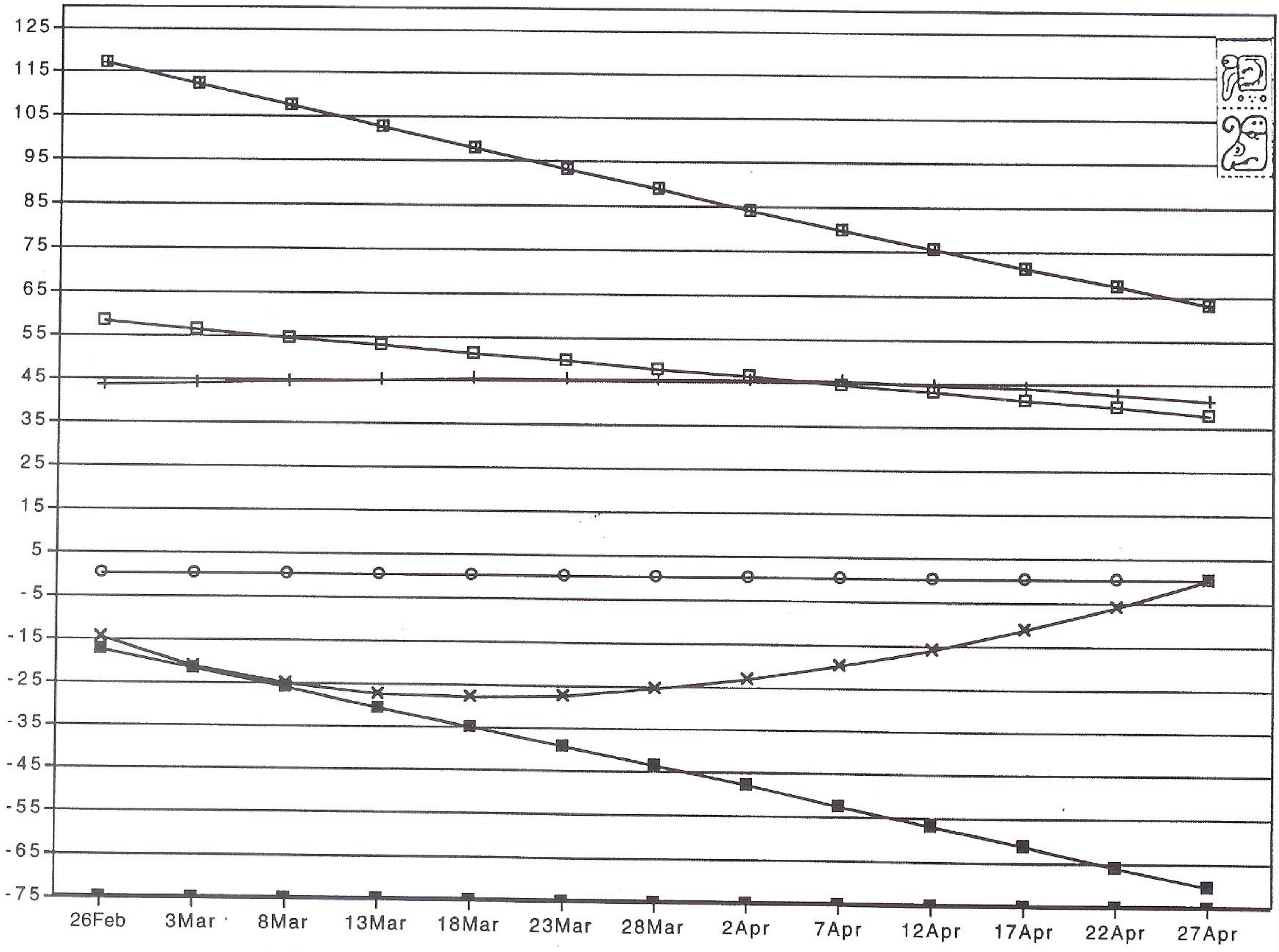


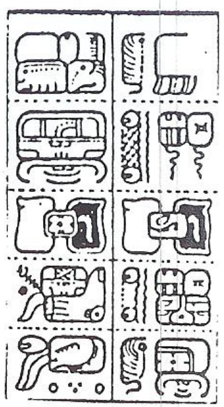
#2

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 17.14

Corr.Const.
584285

Gregorian Wed 31 October 756 A.D.
Julian 27 October 756 A.D.
Mayan 9.16.5.10.2 2 Ik 10 Kankin



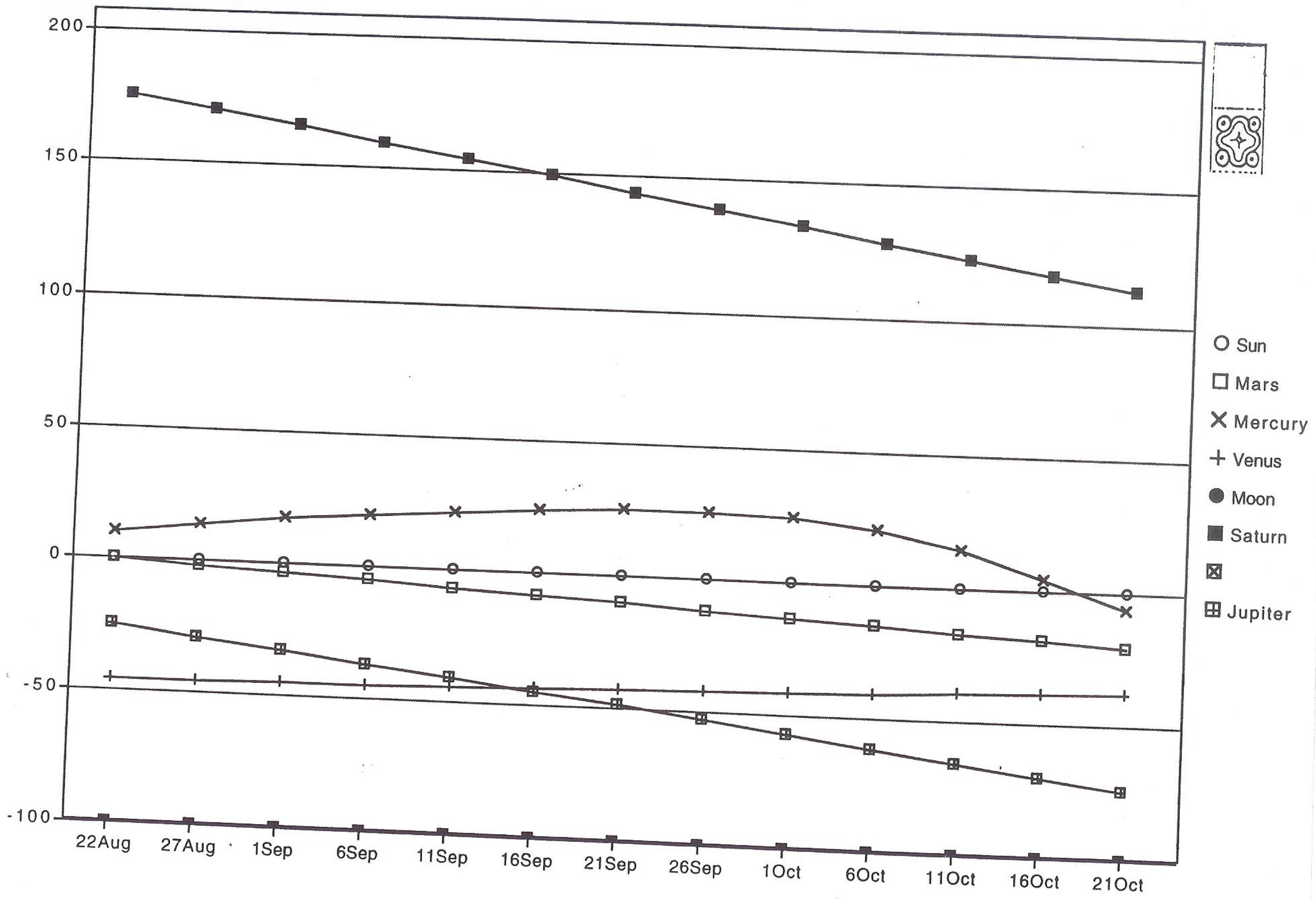


#3

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.7.2

Corr.Const.
584285

Gregorian	Thur 28 March 757 A.D.
Julian	24 March 757 A.D.
Mayan	9.16.5.17.10 7 Oc 13 Zip

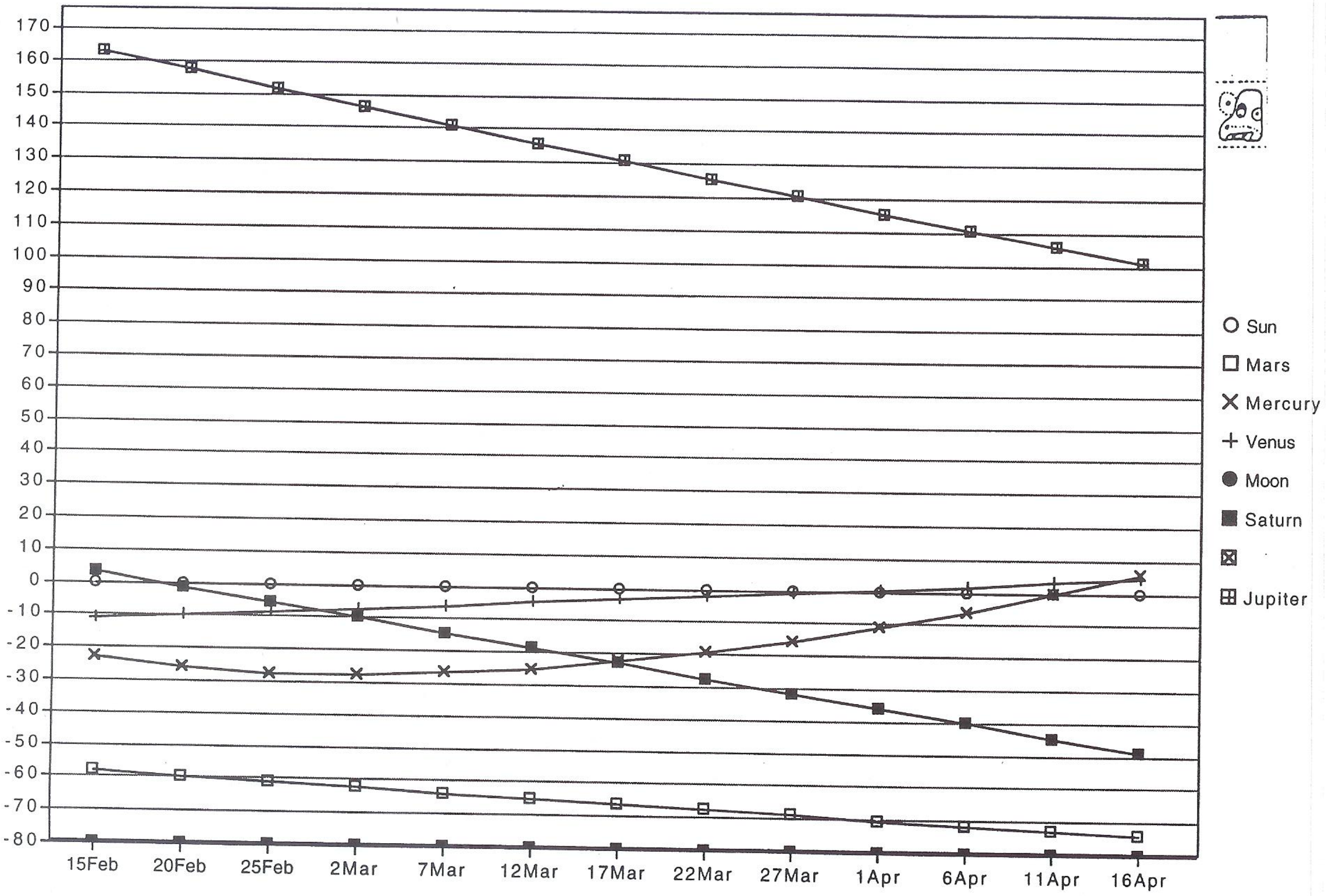


#4

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.15.19

Corr.Const.
584285

Gregorian	Sat 21 September	757 A.D.
Julian	17 September	757 A.D.
Mayan	9.16.6.8.7	2 Manik 10 Ceh

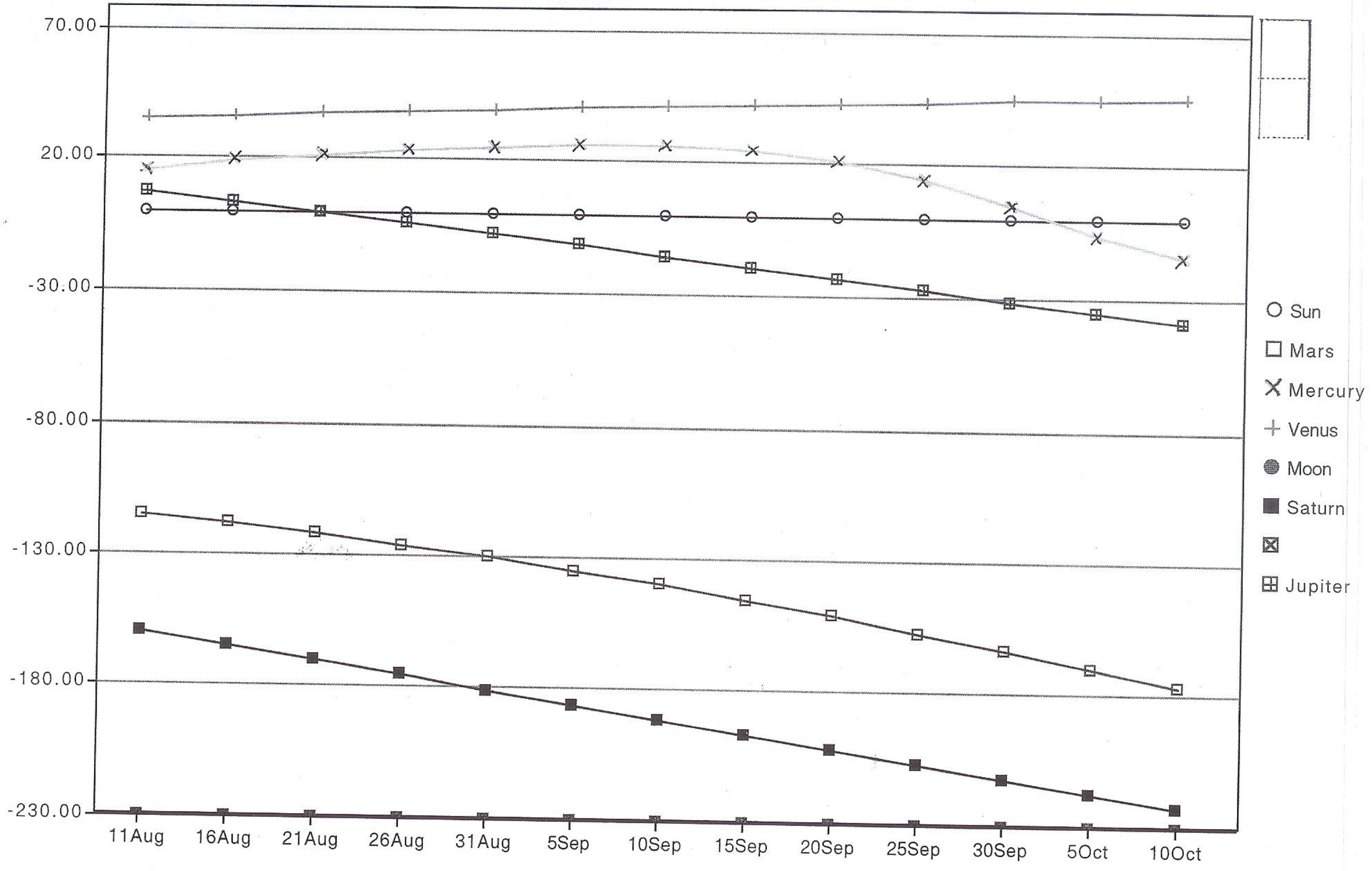


#5

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 2.6.16

Corr.Const.
584285

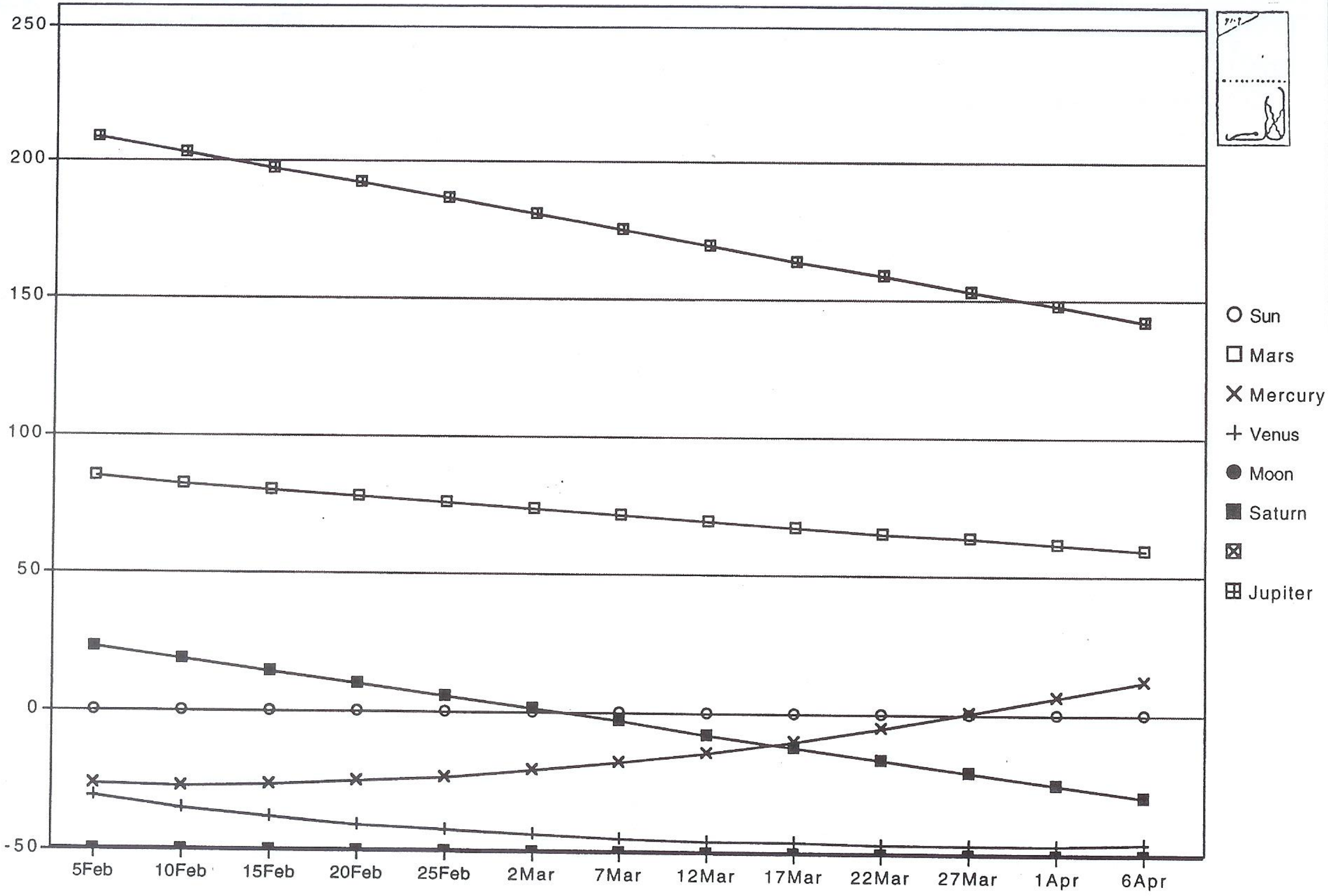
Gregorian	Mon 17 March 758 A.D.
Julian	13 March 758 A.D.
Mayan	9.16.6.17.4 10 Kan 2 Zip



#6

Elongations from Sun.
Negative is Morning Star.
9.16.4.10.8 + 2.15.13

Gregorian	Wed 10 September	758 A.D.
Julian	6 September	758 A.D.
Mayan	9.16.7.8.1	5 Imix 19 Zac
Correlation Constant		584,285

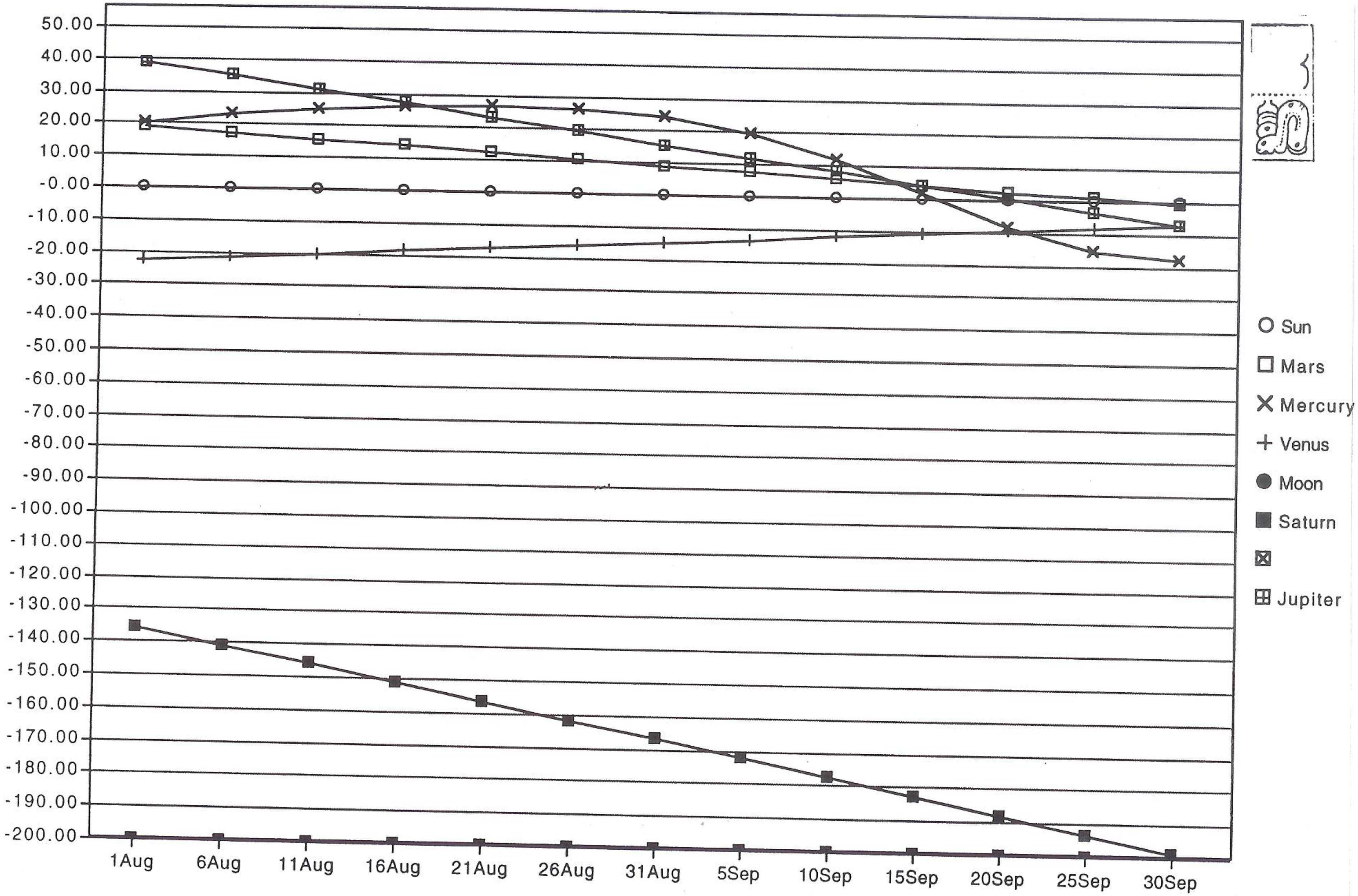


#7

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 3.6.11

Corr.Const.
584285

Gregorian Sat 7 March 759 A.D.
Julian 3 March 759 A.D.
Mayan 9.16.7.16.19 1 Cauac 12 Uo

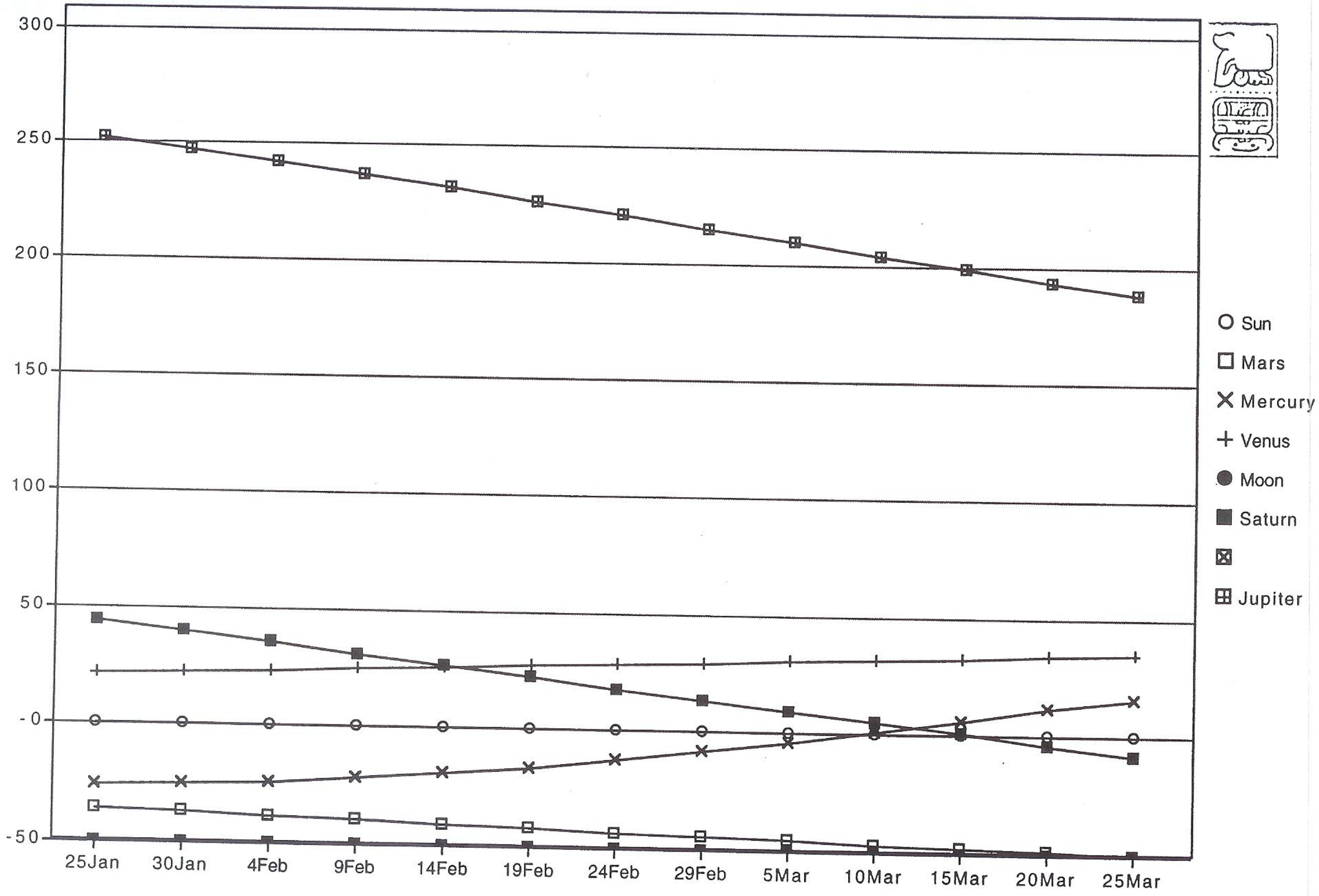


#8

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 3.15.8

Corr.Const.
584285

Gregorian	Mon 31 August	759 A.D.
Julian	27 August	759 A.D.
Mayan	9.16.8.7.16	9 Cib 9 Zac

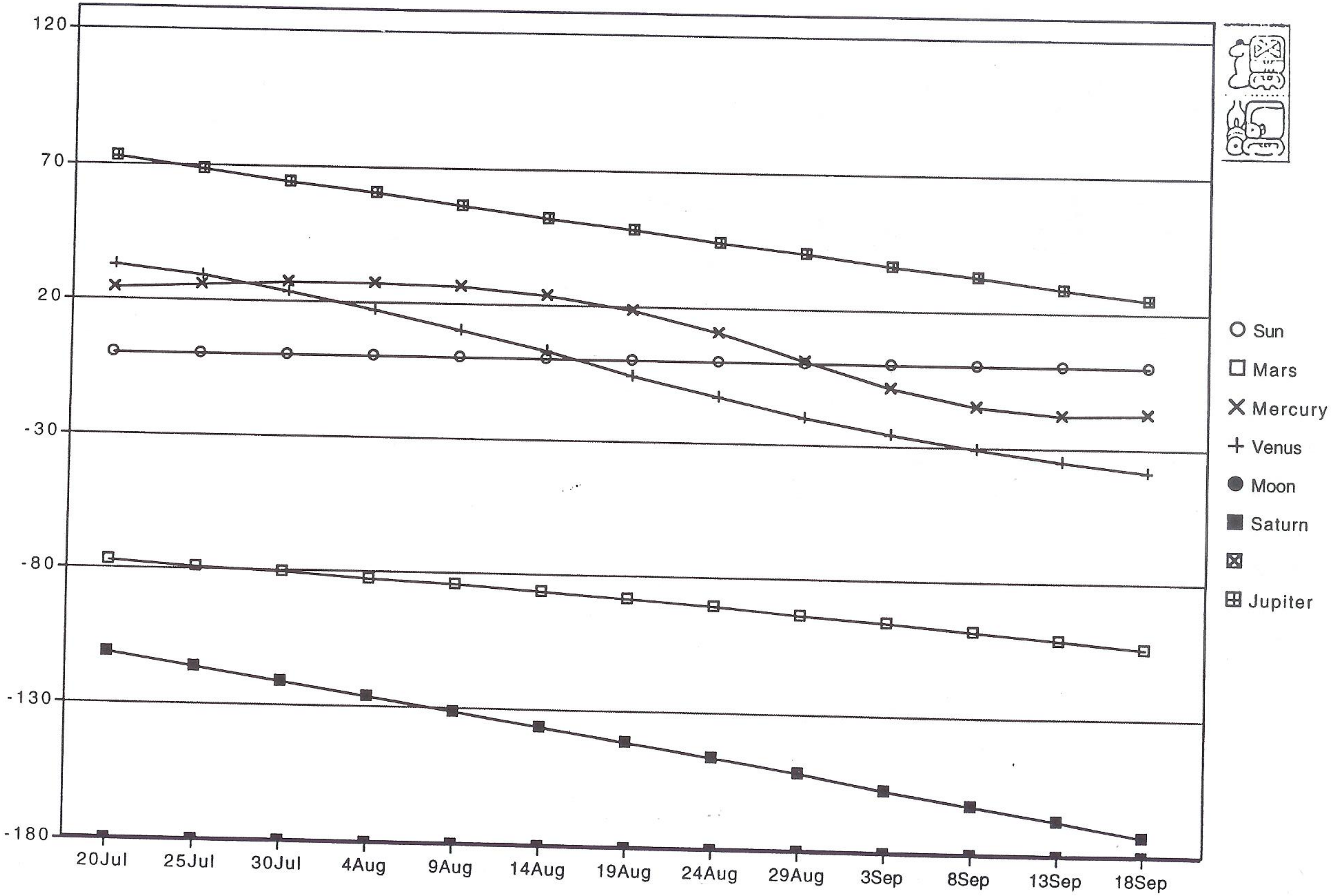


#9

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 4.6.5

Corr.Const.
584285

Gregorian	Wed 24 February 760 A.D.
Julian	20 February 760 A.D.
Mayan	9.16.8.16.13 4 Ben 1 Uo



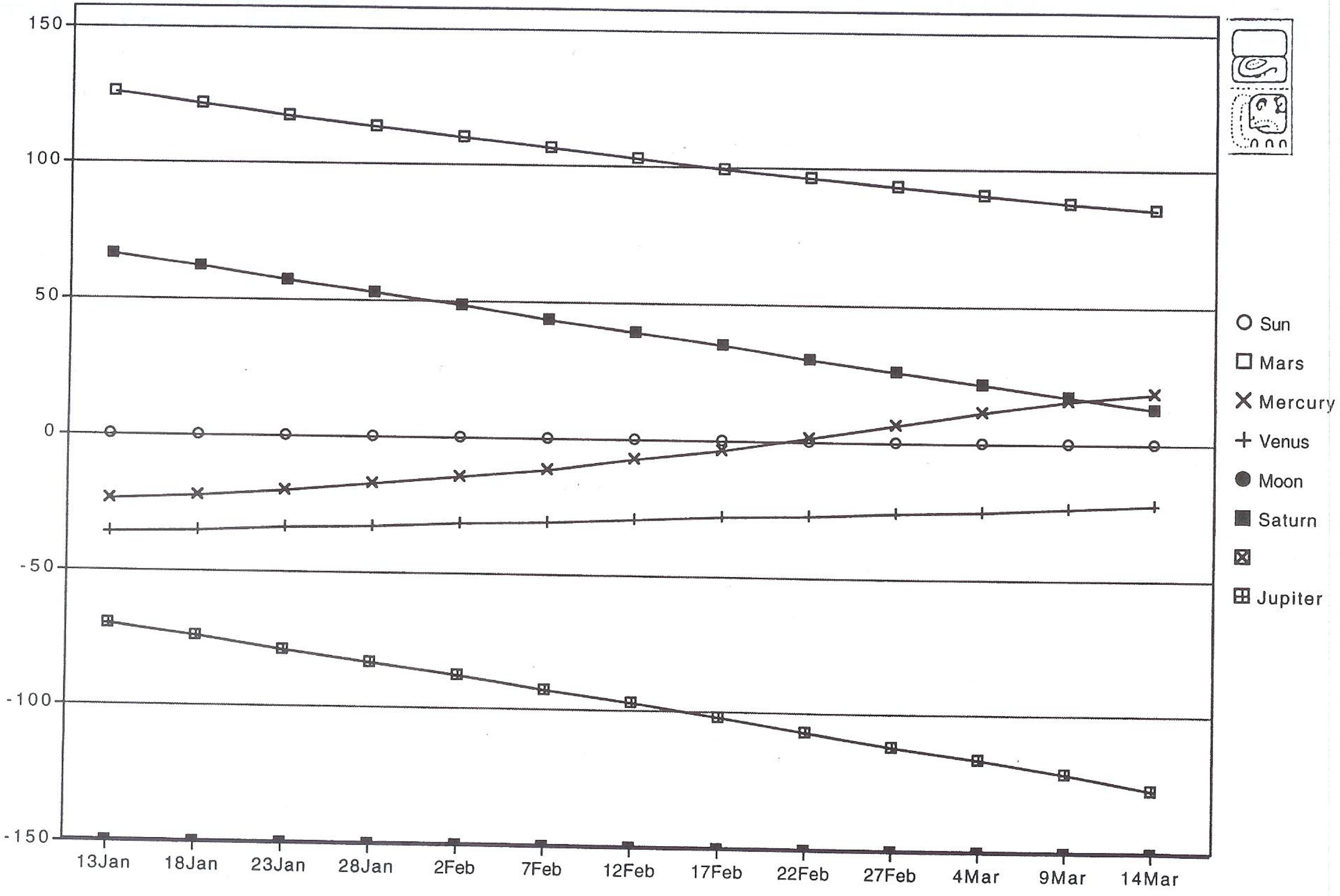
#10

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 4.15.2

Corr.Const.
584285

Gregorian
Julian
Mayan

Fri 19 August 760 A.D.
15 August 760 A.D.
9.16.9.7.10 12 Oc 18 Yax

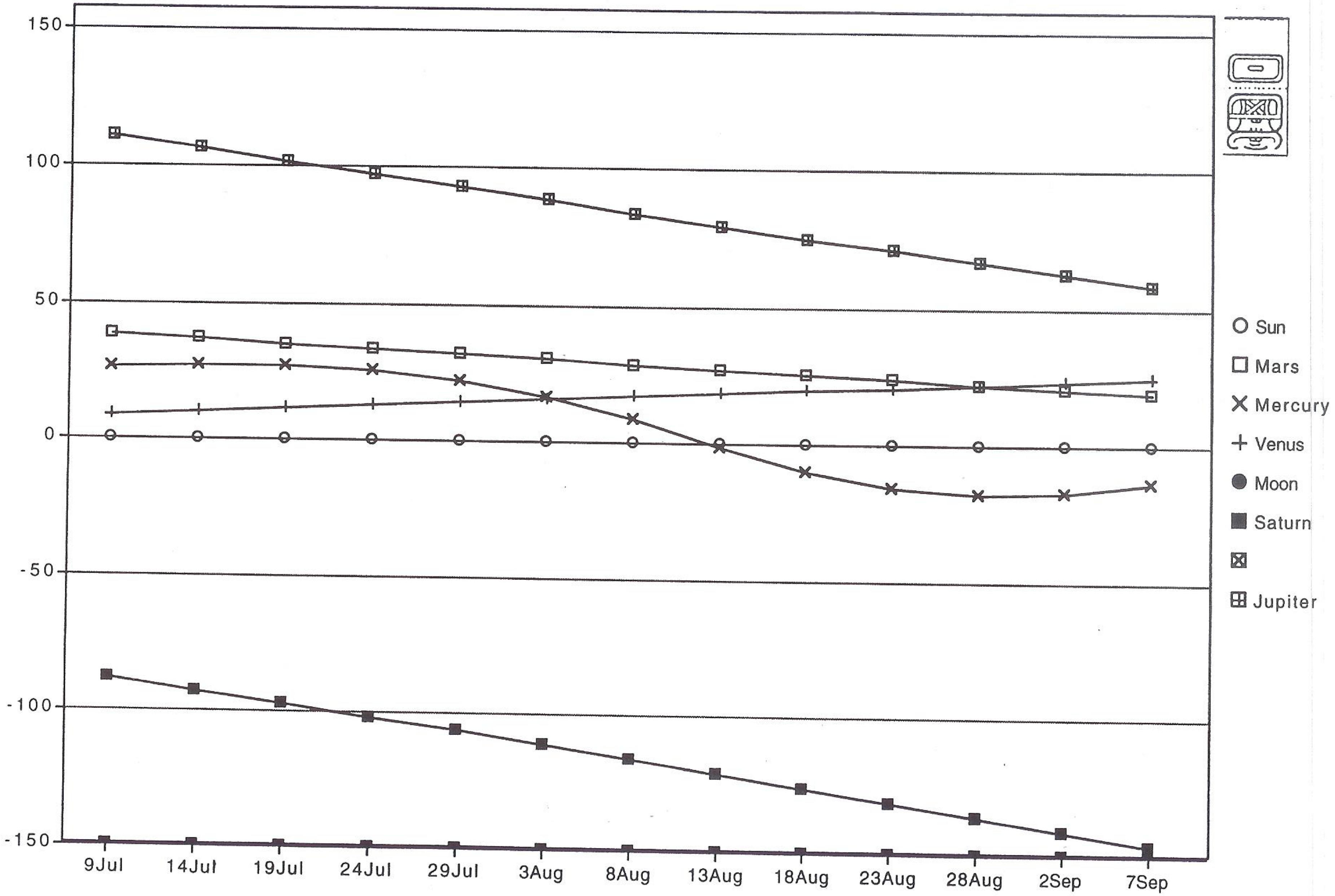


#11

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 5.5.19

Corr.Const.
584285

Gregorian	Sun 12 February 761 A.D.
Julian	8 February 761 A.D.
Mayan	9.16.9.16.7 7 Manik 10 Pop

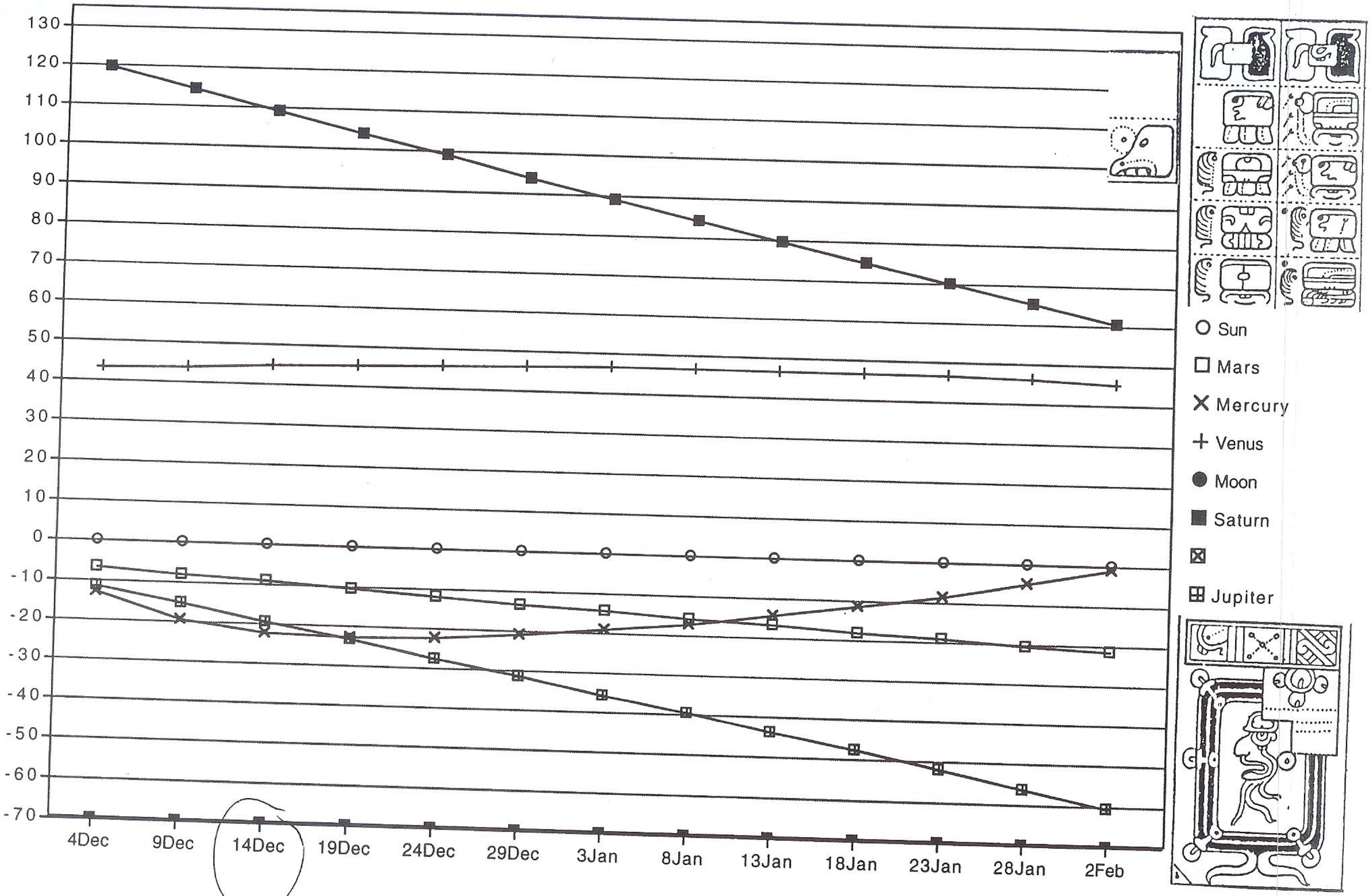


#12

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 5.14.16

Corr.Const.
584285

Gregorian	Tues 8 August 761 A.D.
Julian	4 August 761 A.D.
Mayan	9.16.10.7.4 2 Kan 7 Yax

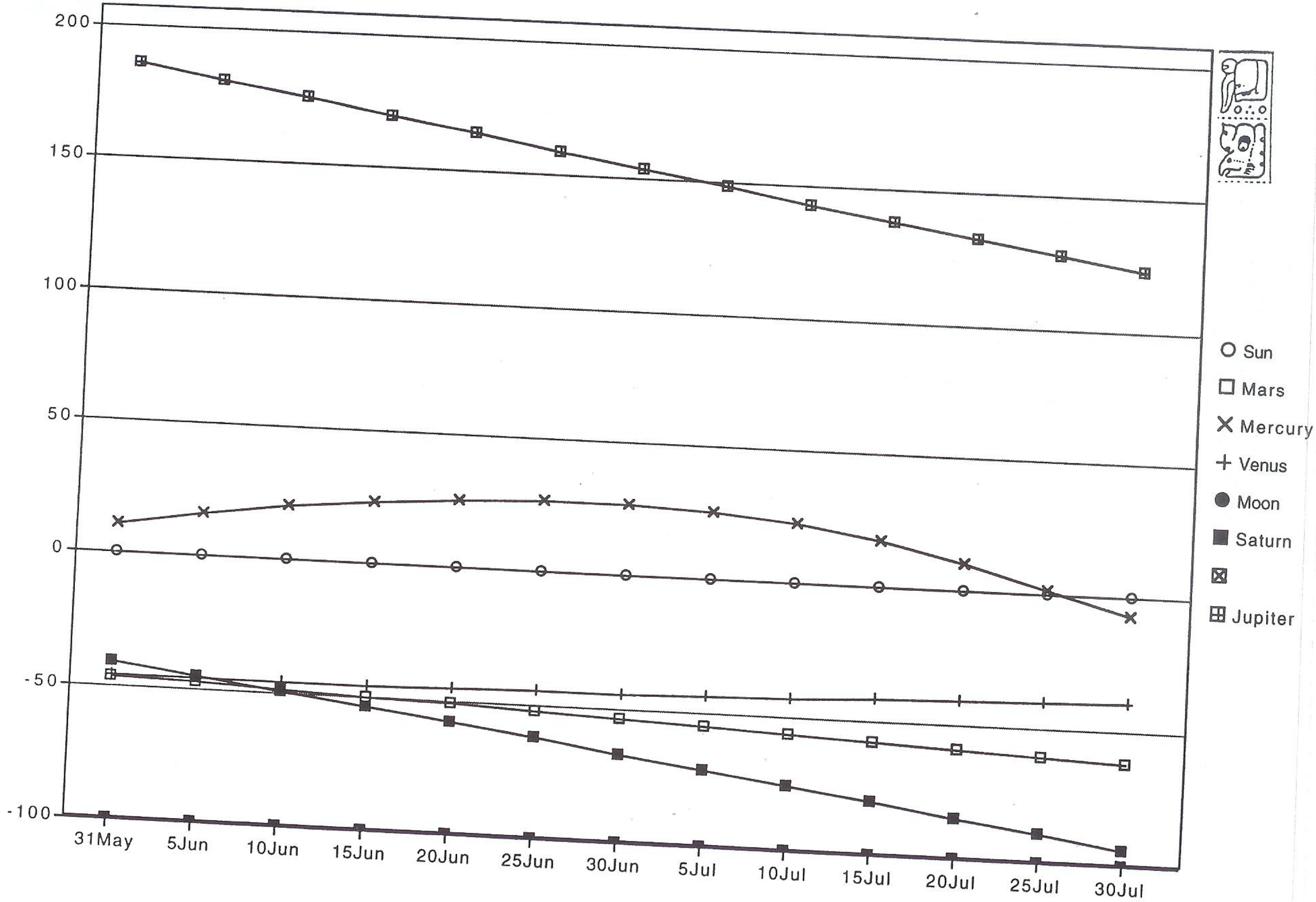


#13

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 6.4.4

Corr.Const.
584285

Gregorian	Wed 3 January	762 A.D.
Julian	30 December	761 A.D.
Mayan	9.16.10.14.12 7 Eb	15 Kayab

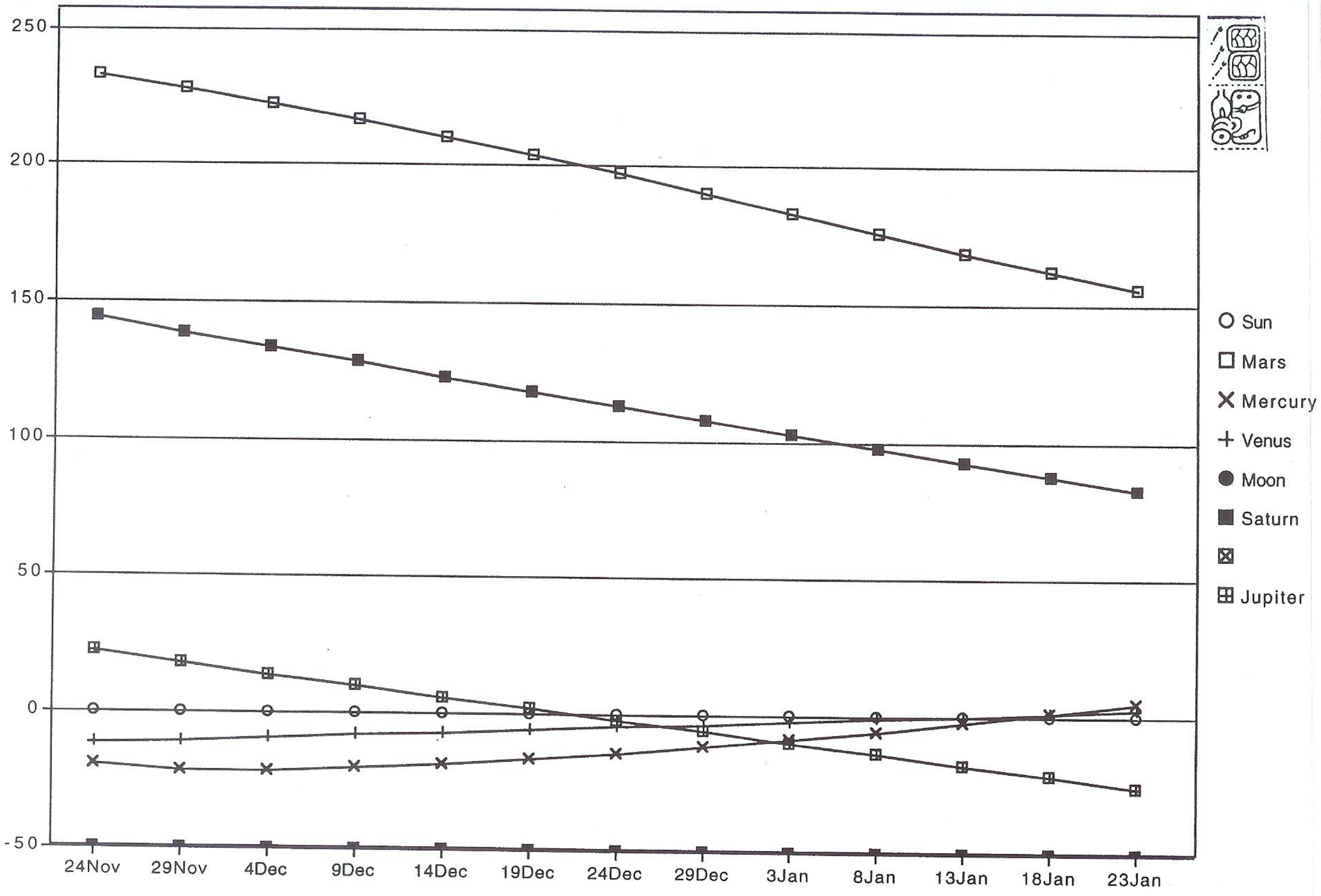


#14

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 6.13.2

Corr.Const.
584285

Gregorian	Sat 30 June	762 A.D.
Julian	26 June	762 A.D.
Mayan	9.16.11.5.10	3 Oc 8 Mol

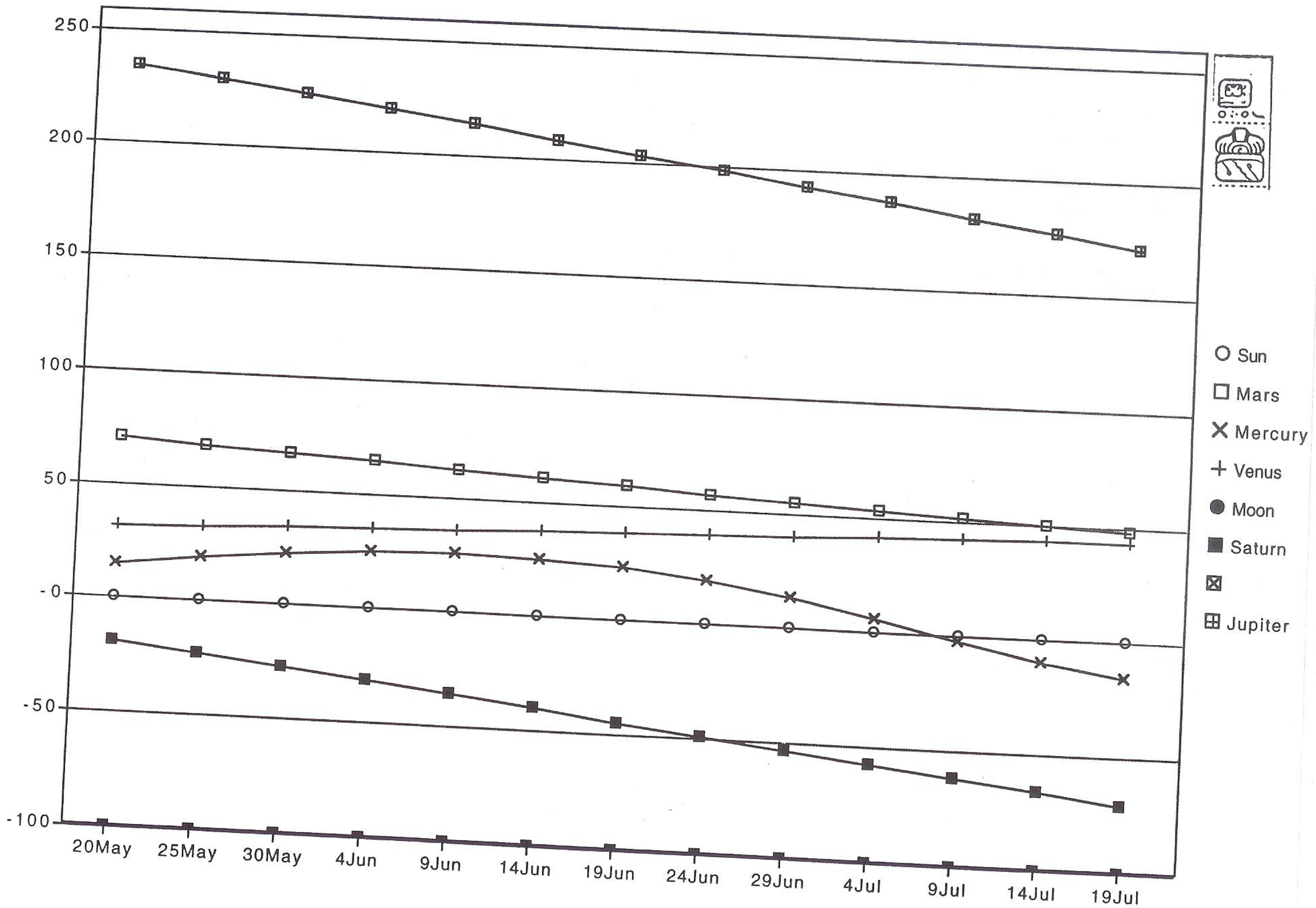


#15

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 7.3.19

Corr.Const.
584285

Gregorian	Mon 24 December	762 A.D.
Julian	20 December	762 A.D.
Mayan	9.16.11.14.7 11 Manik	5 Kayab

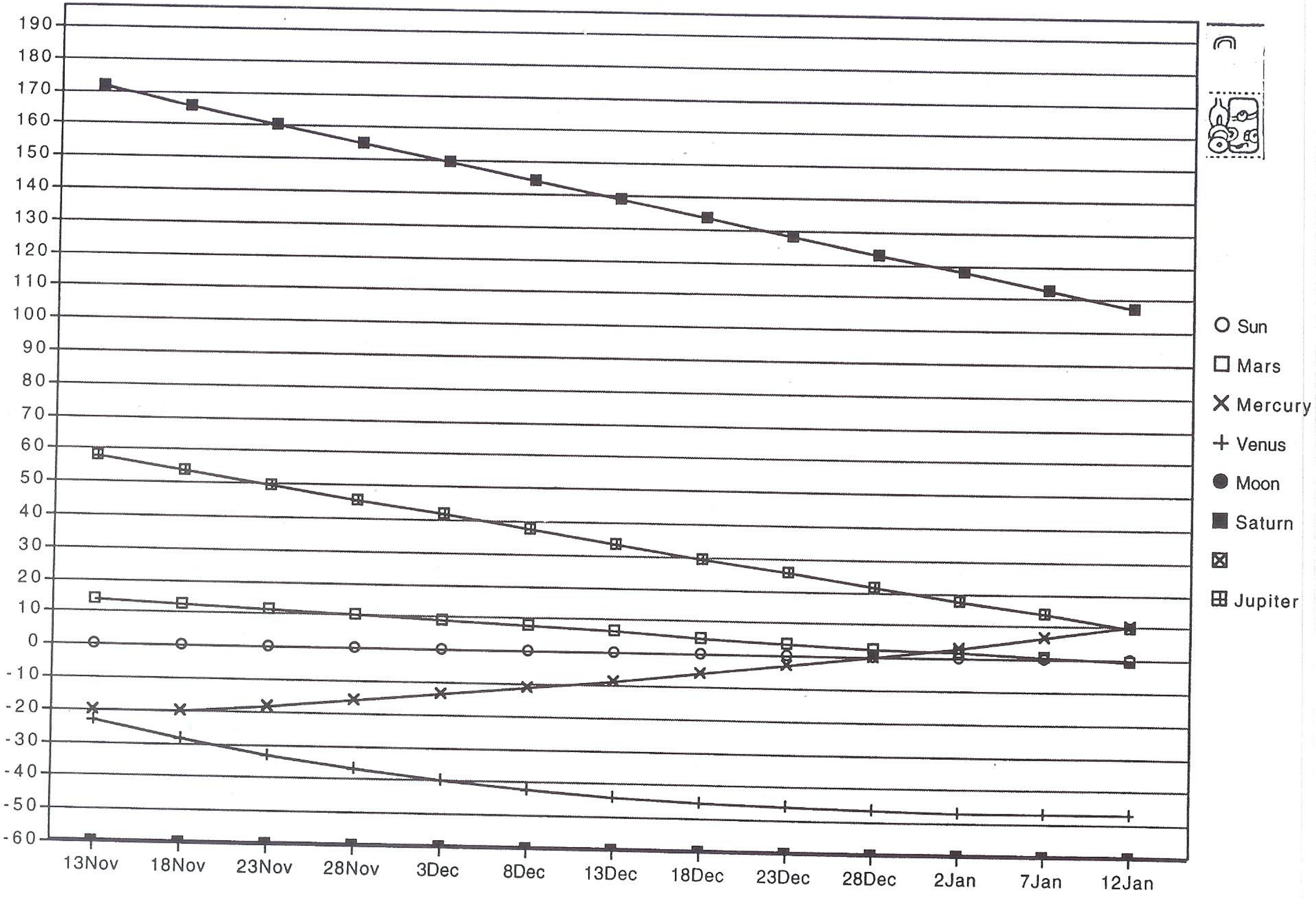


#16

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 7.12.16

Corr.Const.
584285

Gregorian	Wed 19 June	763 A.D.
Julian	15 June	763 A.D.
Mayan	9.16.12.5.4 6 Kan	17 Yaxkin

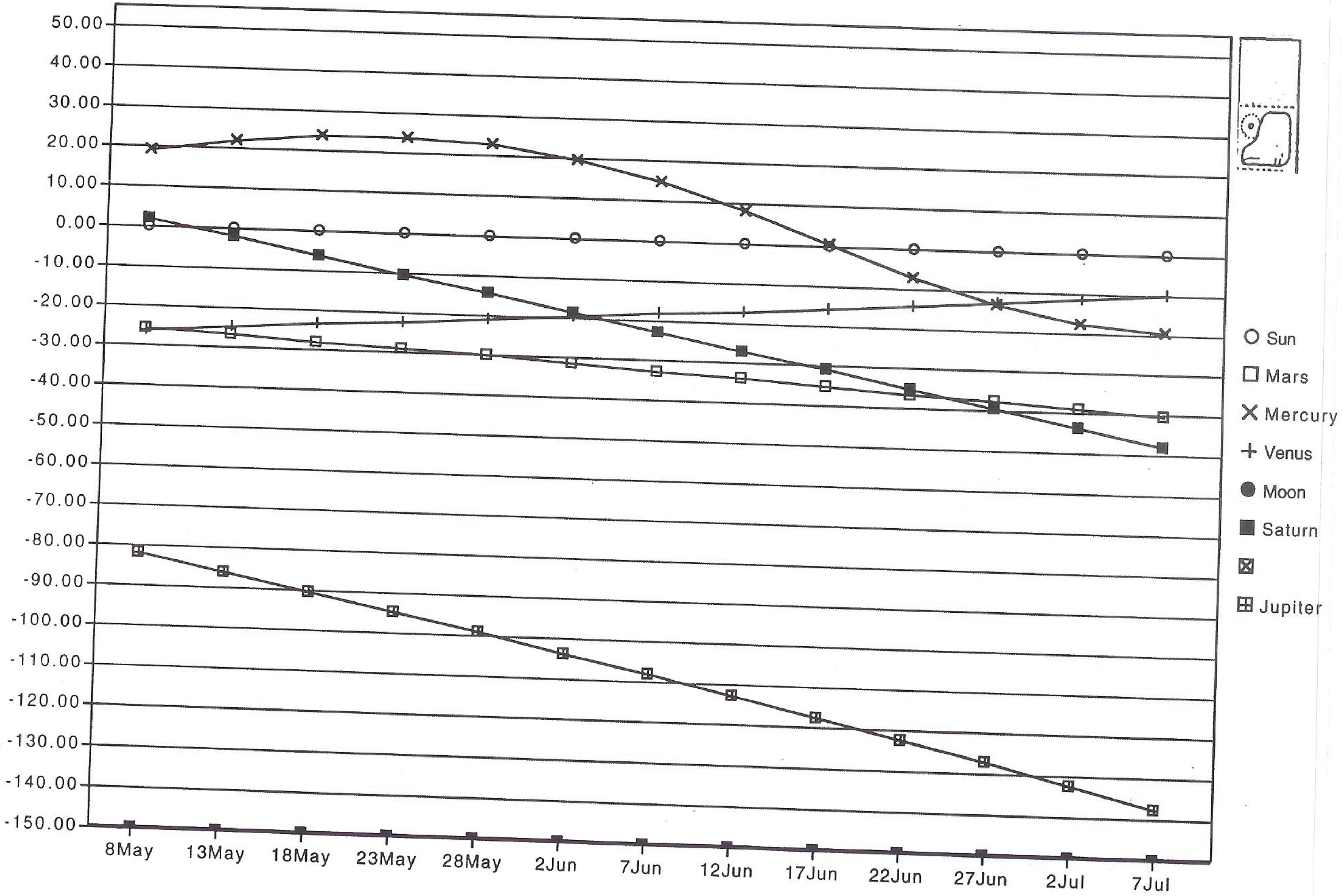


#17

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 8.3.13

Corr.Const.
584285

Gregorian	Fri 13 December 763 A.D.
Julian	9 December 763 A.D.
Mayan	9.16.12.14.1 1 Imix 14 Pax

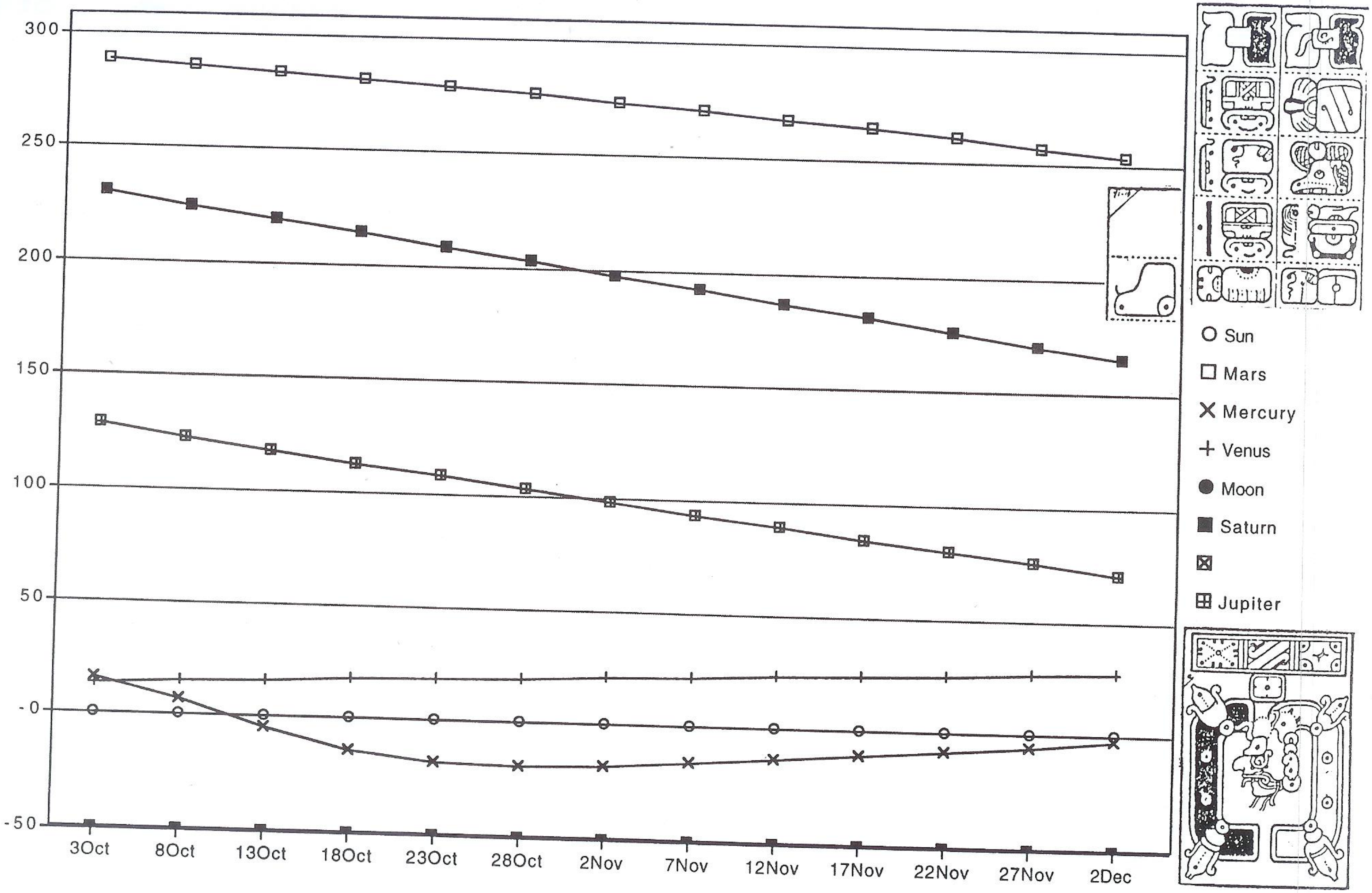


#18

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 8.12.10

Corr.Const.
584285

Gregorian Sun 7 June 764 A.D.
Julian 3 June 764 A.D.
Mayan 9.16.13.4.18 9 Etz'nab 6 Yaxkin

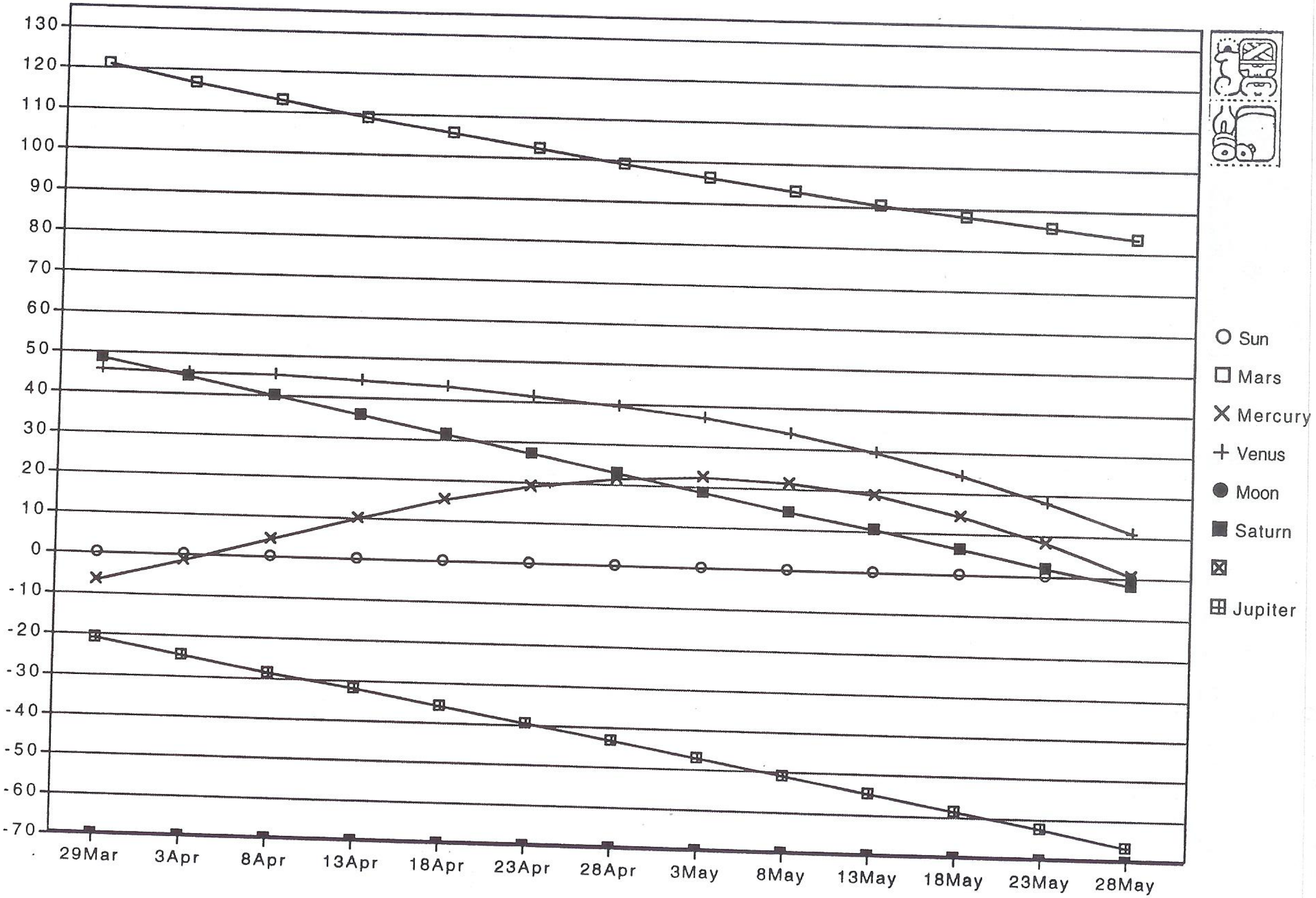


#19

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 9.1.18

Corr.Const.
584285

Gregorian	Mon 2 November	764 A.D.
Julian	29 October	764 A.D.
Mayan	9.16.13.12.6 1 Cimi	14 Kankin

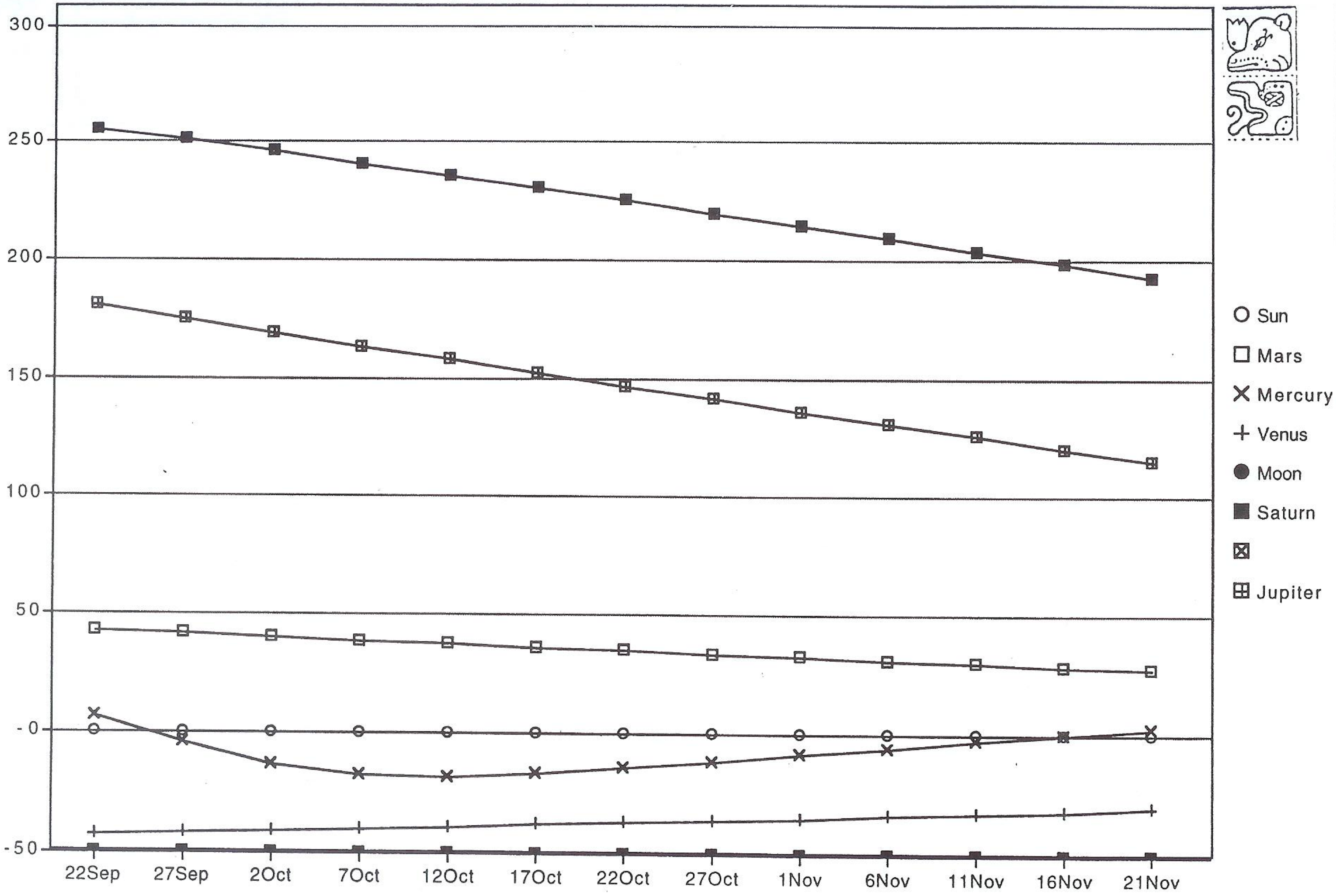


#20

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 9.10.15

Corr.Const.
584285

Gregorian	Wed 28 April 765 A.D.
Julian	24 April 765 A.D.
Mayan	9.16.14.3.3 9 Akbal 6 Zec

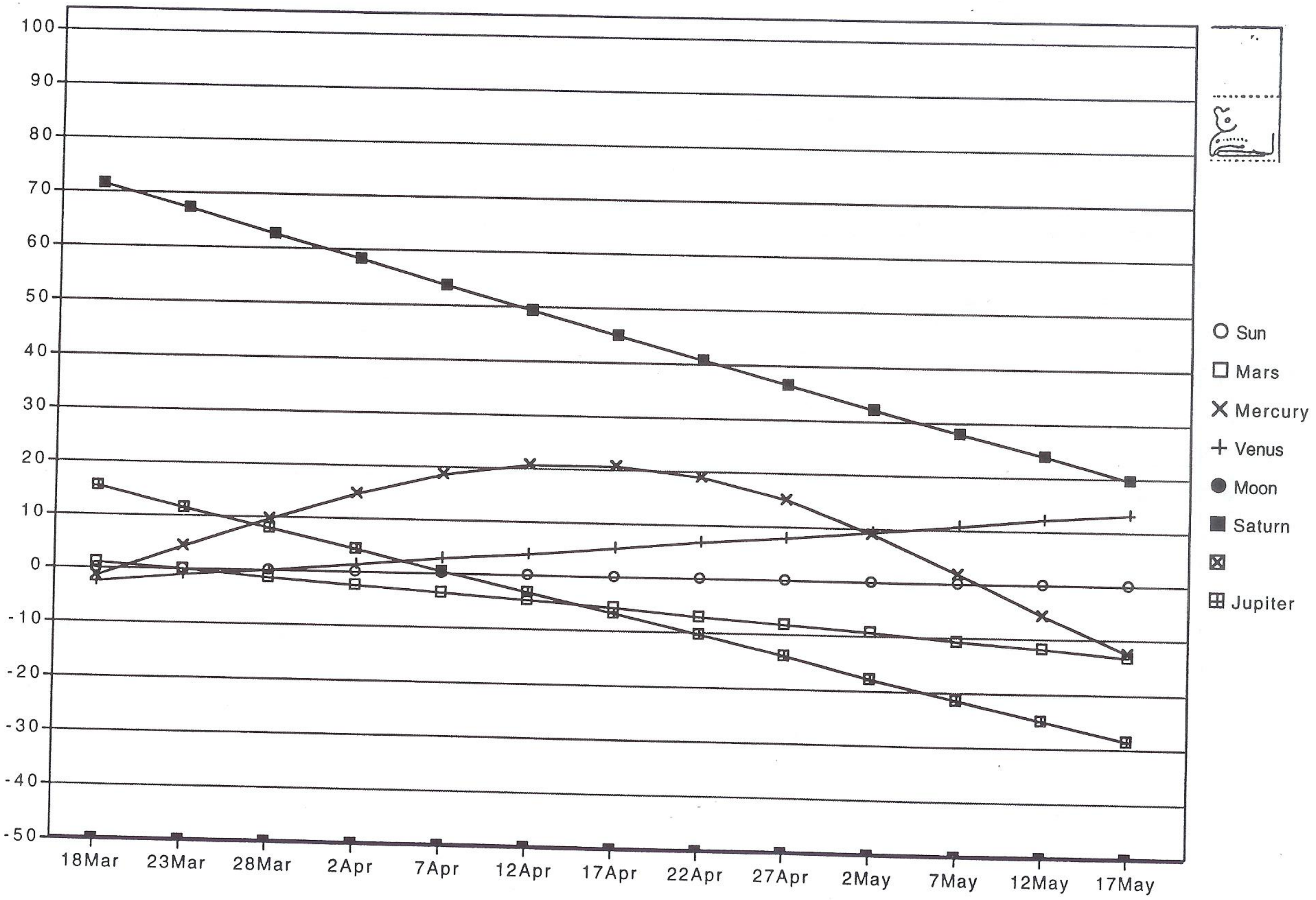


#21

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 10.1.12

Corr.Const.
584285

Gregorian Fri 22 October 765 A.D.
Julian 18 October 765 A.D.
Mayan 9.16.14.12.0 4 Ahau 3 Kankin

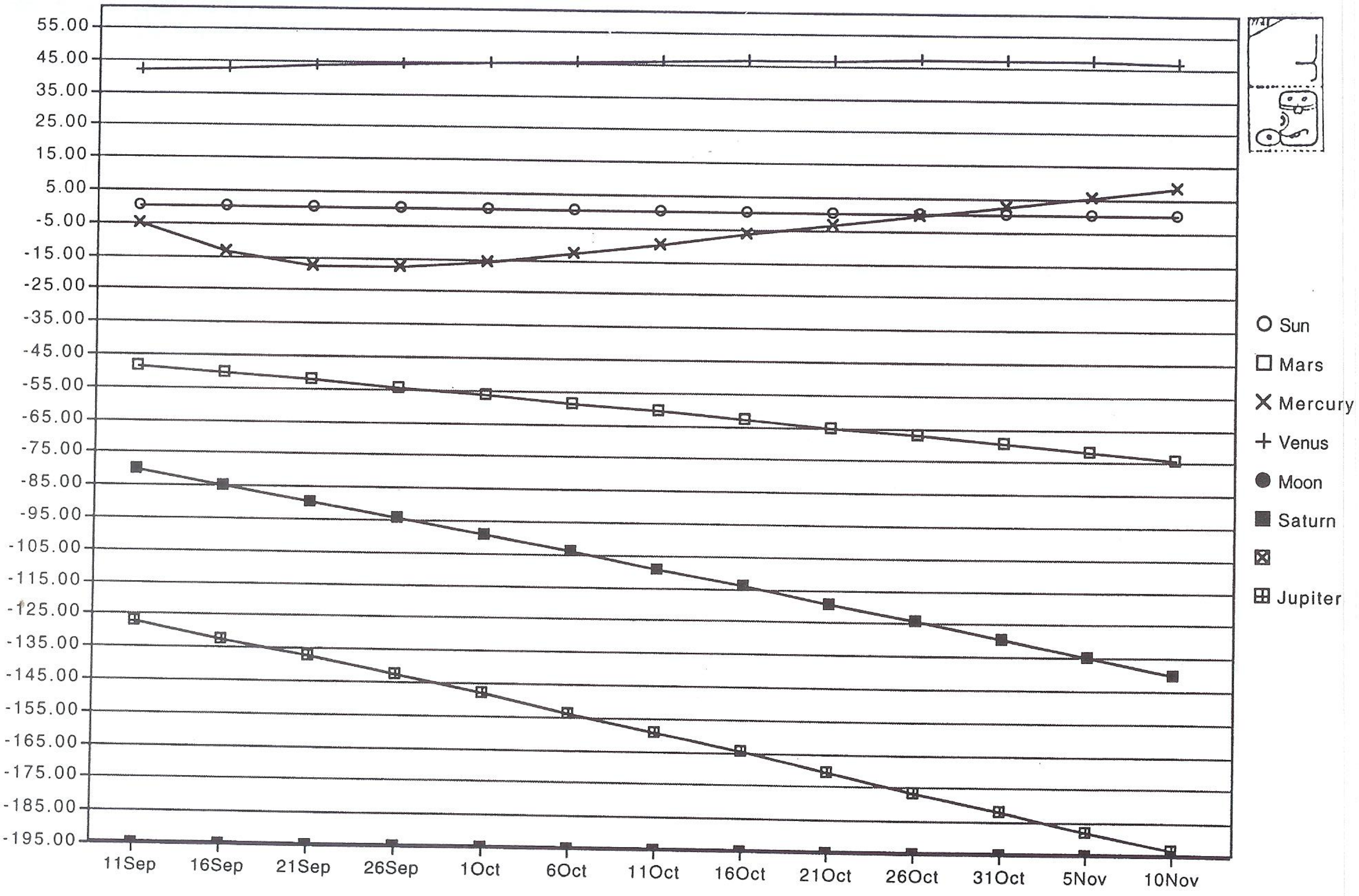


#22

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 10.10.9

Corr.Const.
584285

Gregorian Sun 17 April 766 A.D.
Julian 13 April 766 A.D.
Mayan 9.16.15.2.17 12 Caban 15 Zotz'

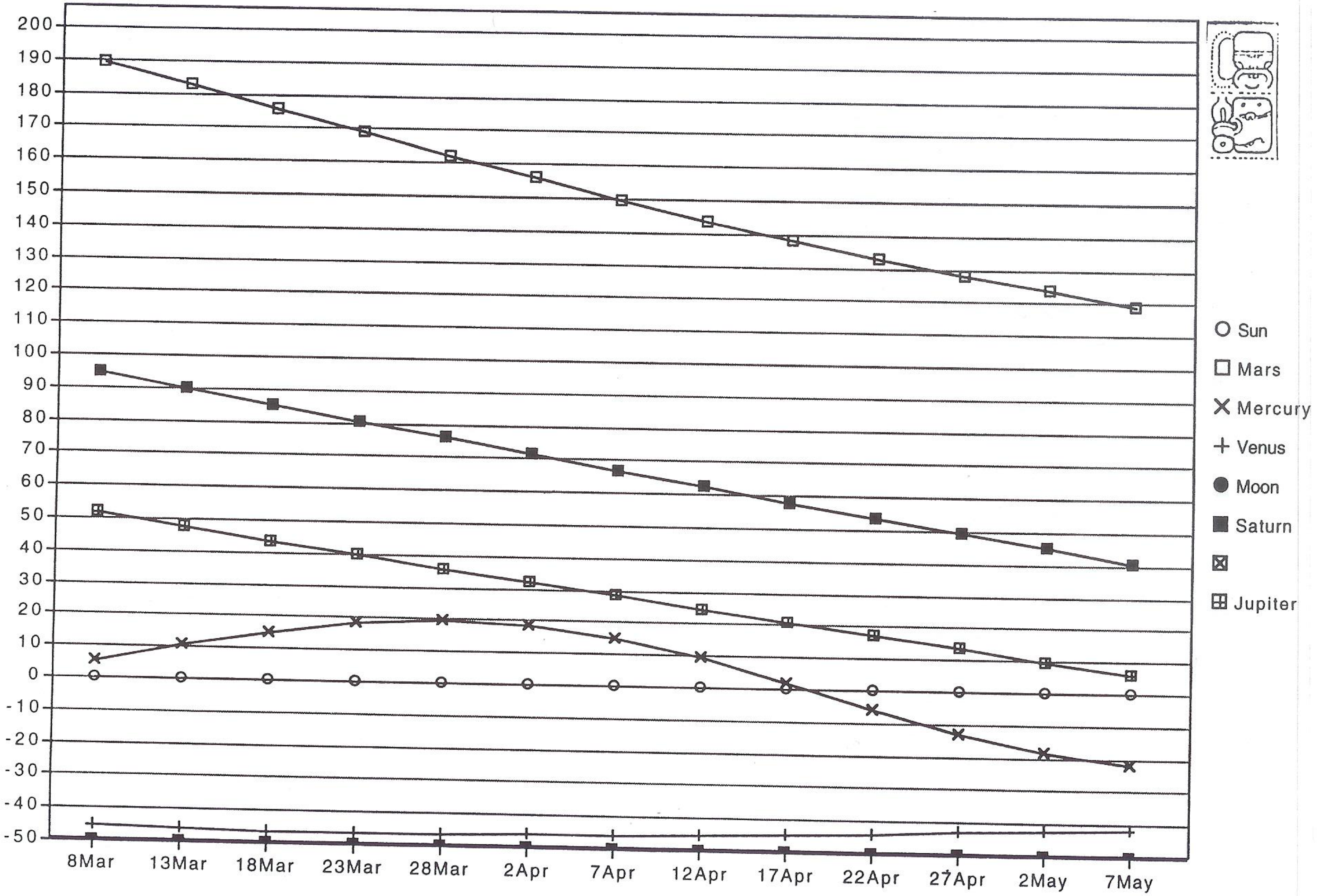


#23

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 11.1.6

Corr.Const.
584285

Gregorian	Tues 11 October 766 A.D.
Julian	7 October 766 A.D.
Mayan	9.16.15.11.14 7 Ix 12 Mac

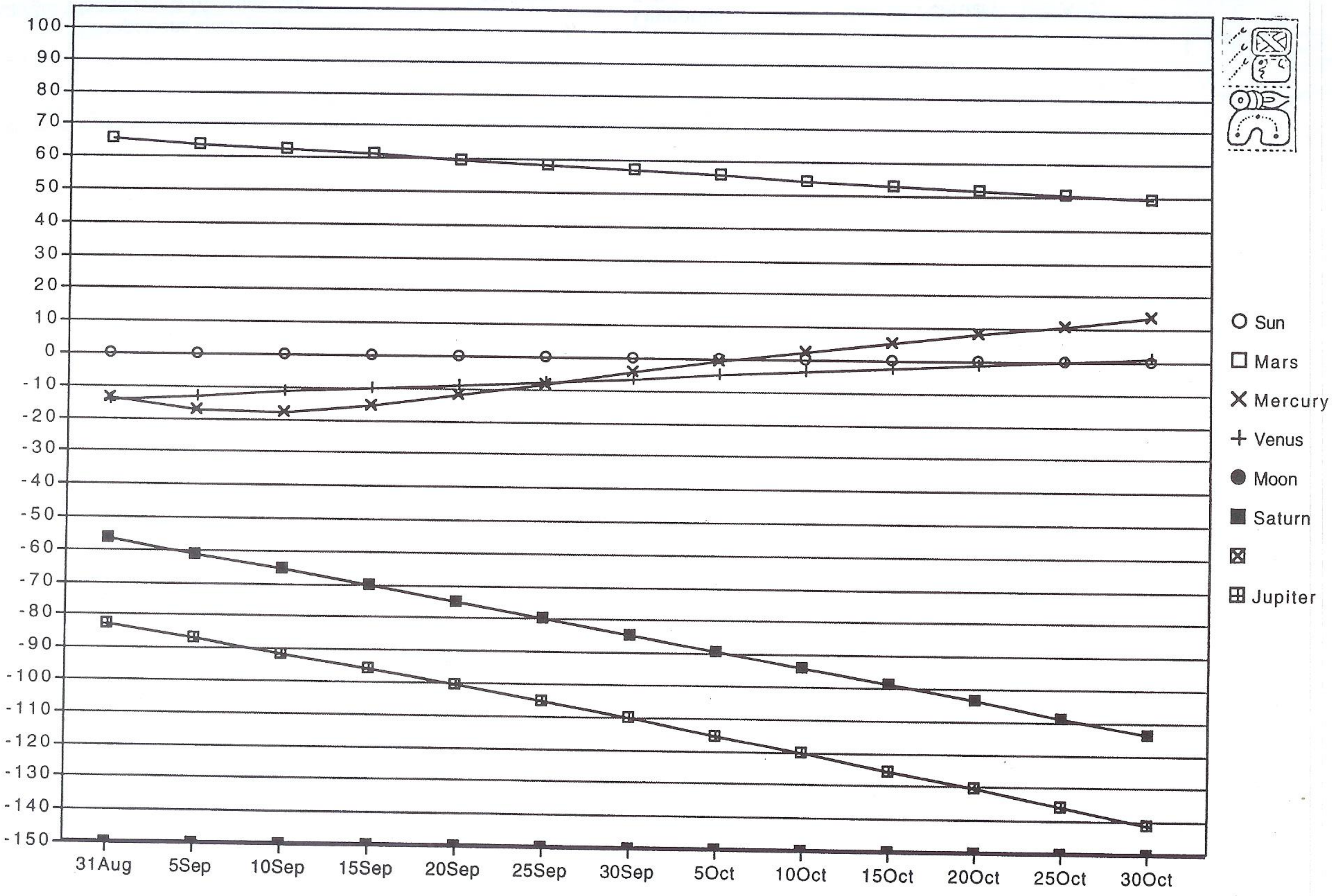


#24

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 11.10.4

Corr.Const.
584285

Gregorian	Fri 7 April 767 A.D.
Julian	3 April 767 A.D.
Mayan	9.16.16.2.12 3 Eb 5 Zotz'

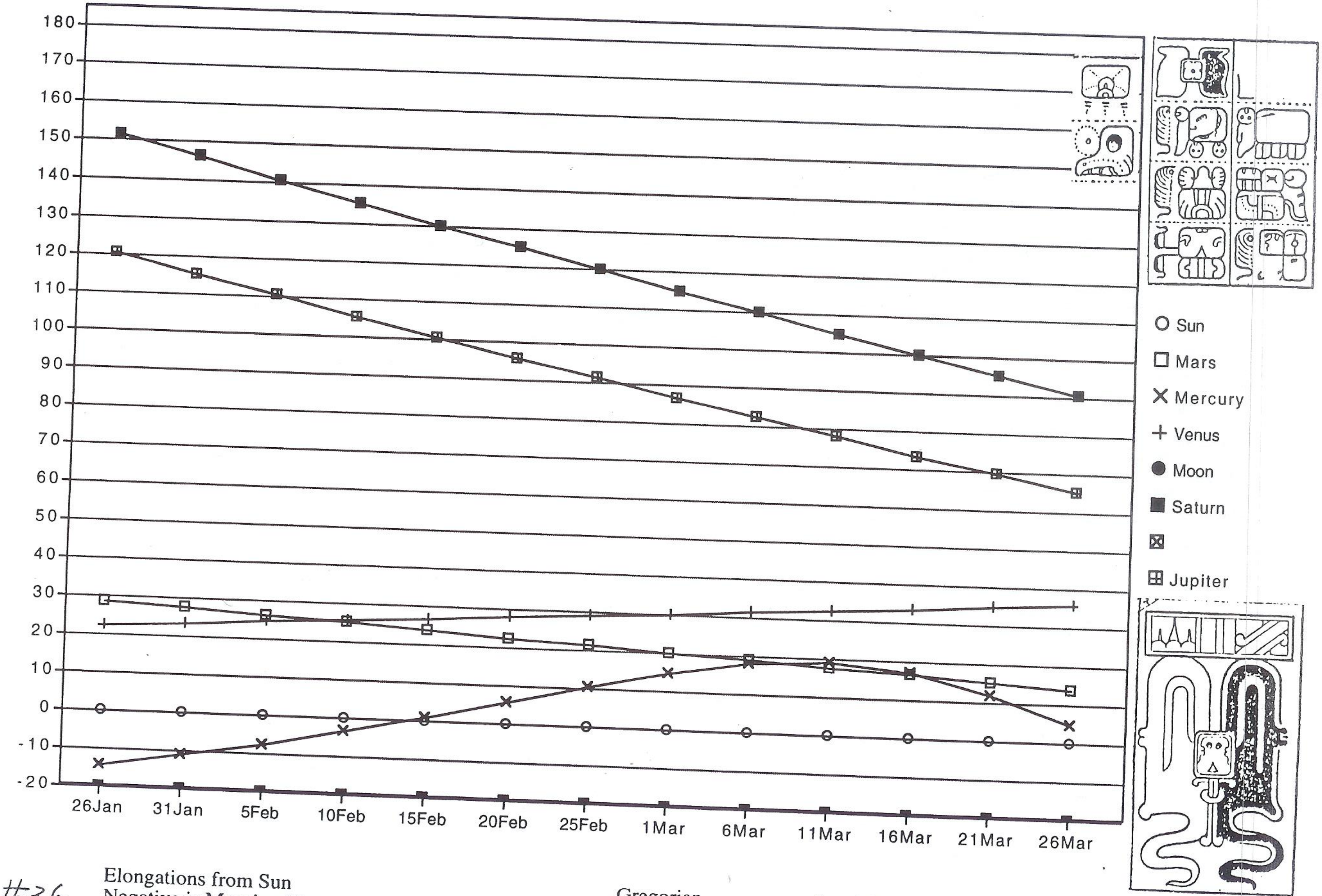


#25

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 12.1.0

Corr.Const.
584285

Gregorian Sat 30 September 767 A.D.
Julian 26 September 767 A.D.
Mayan 9.16.16.11.8 10 Lamat 1 Mac

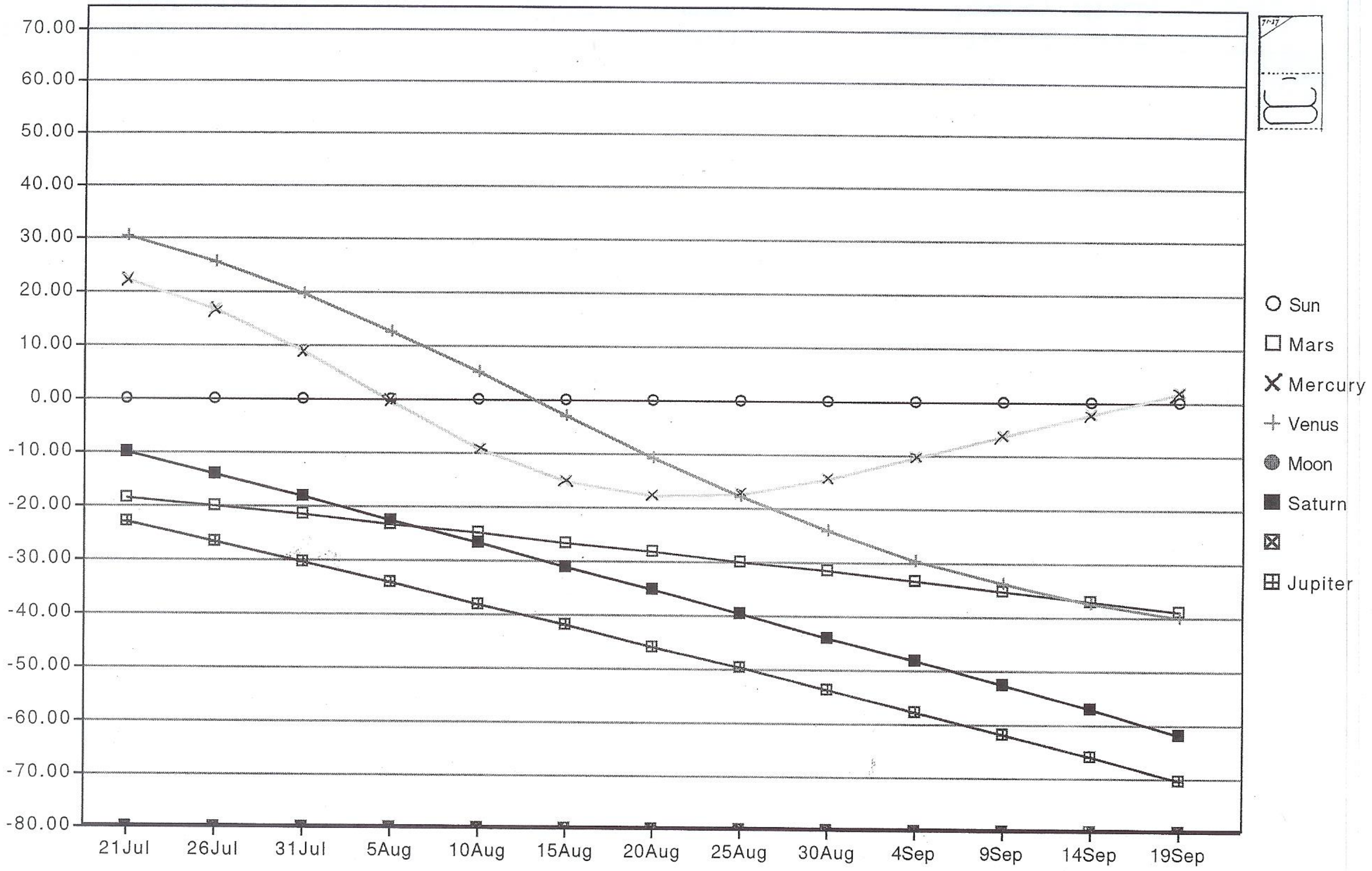


#26

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 12.8.8

Corr.Const.
584285

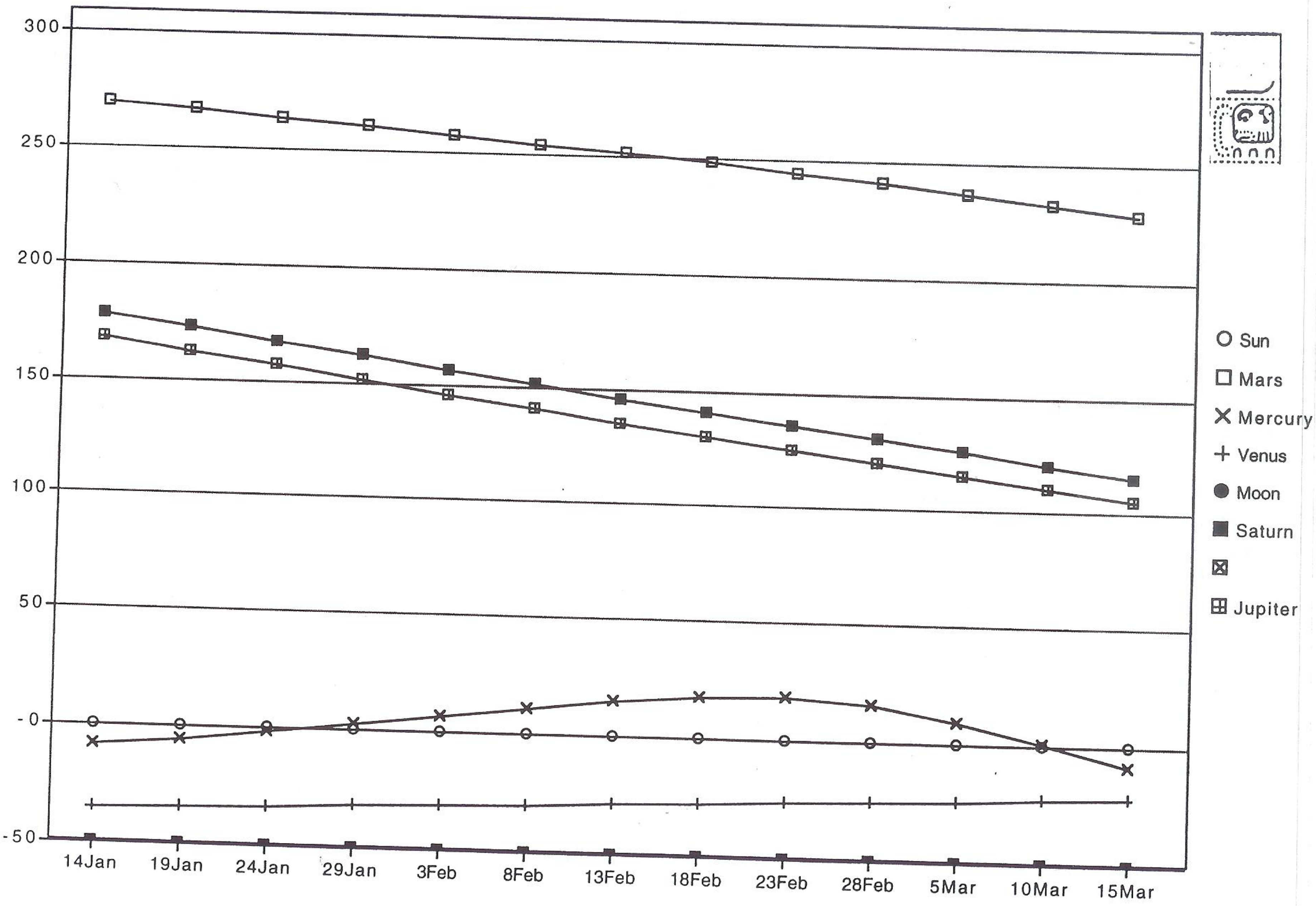
Gregorian	Sun 25 February	768 A.D.
Julian	21 February	768 A.D.
Mayan	9.16.17.0.16	2 Cib 4 Uo



#27

Elongations from Sun.
Negative is Morning Star.
9.16.4.10.8 + 12.17.5

Gregorian	Tues 20 August 768 A.D.
Julian	16 August 768 A.D.
Mayan	9.16.17.9.13 10 Ben 1 Zac
Correlation Constant	584,285

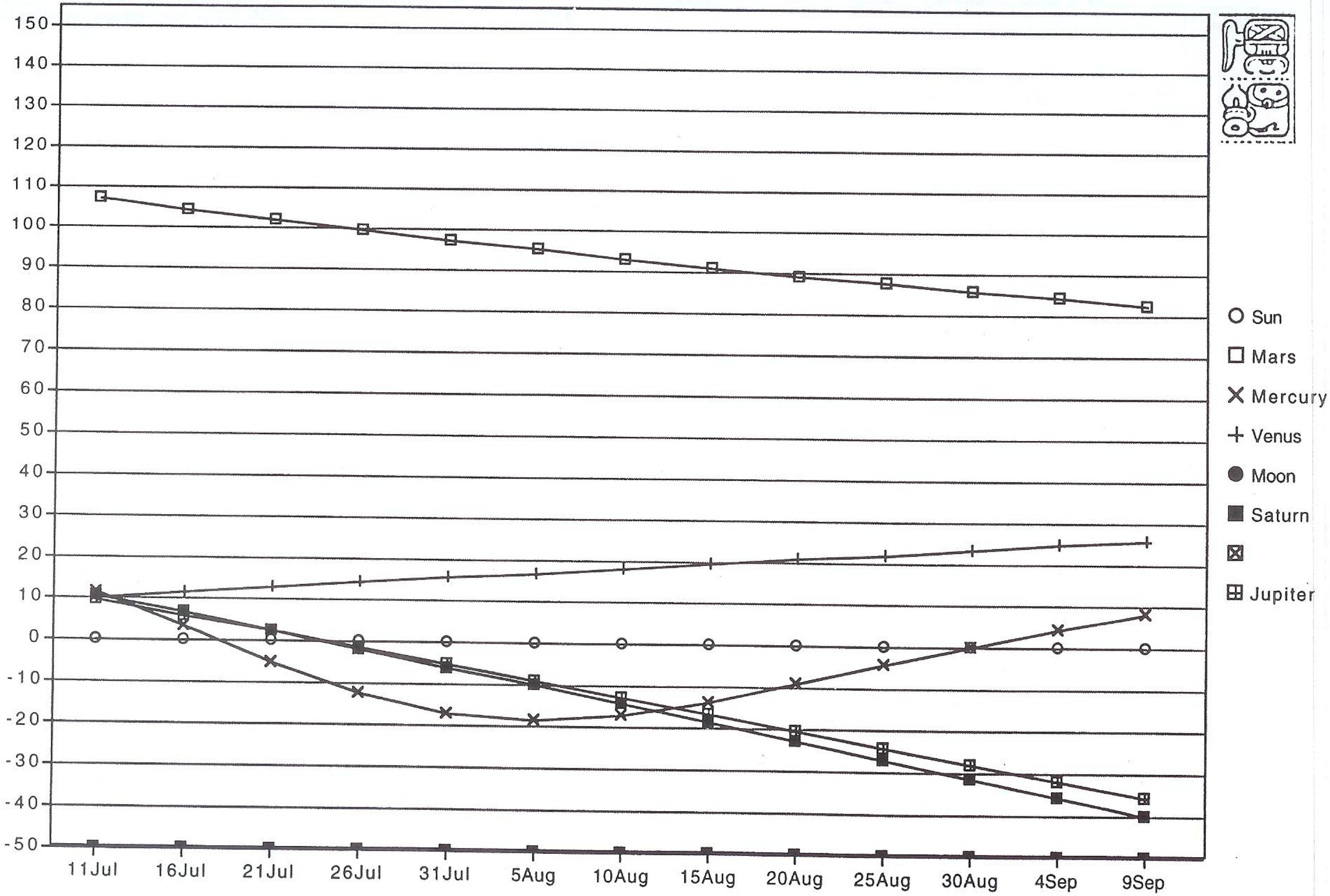


#28

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 13.8.2

Corr.Const.
584285

Gregorian	Thur 13 February 769 A.D.
Julian	9 February 769 A.D.
Mayan	9.16.18.0.10 5 Oc 13 Pop

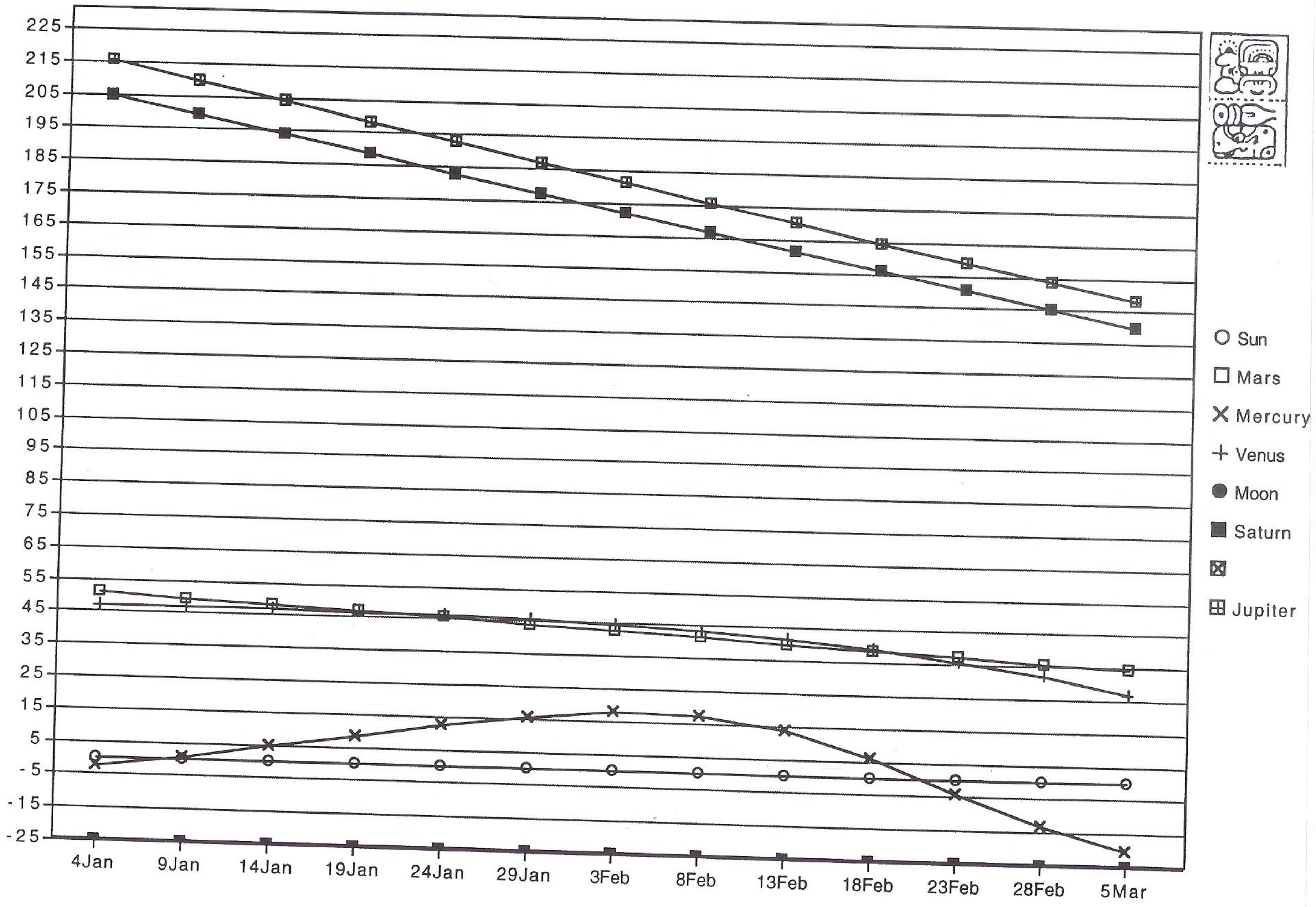


#29

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 13.17.0

Corr.Const.
584285

Gregorian	Sun 10 August 769 A.D.
Julian	6 August 769 A.D.
Mayan	9.16.18.9.8 1 Lamat 11 Yax



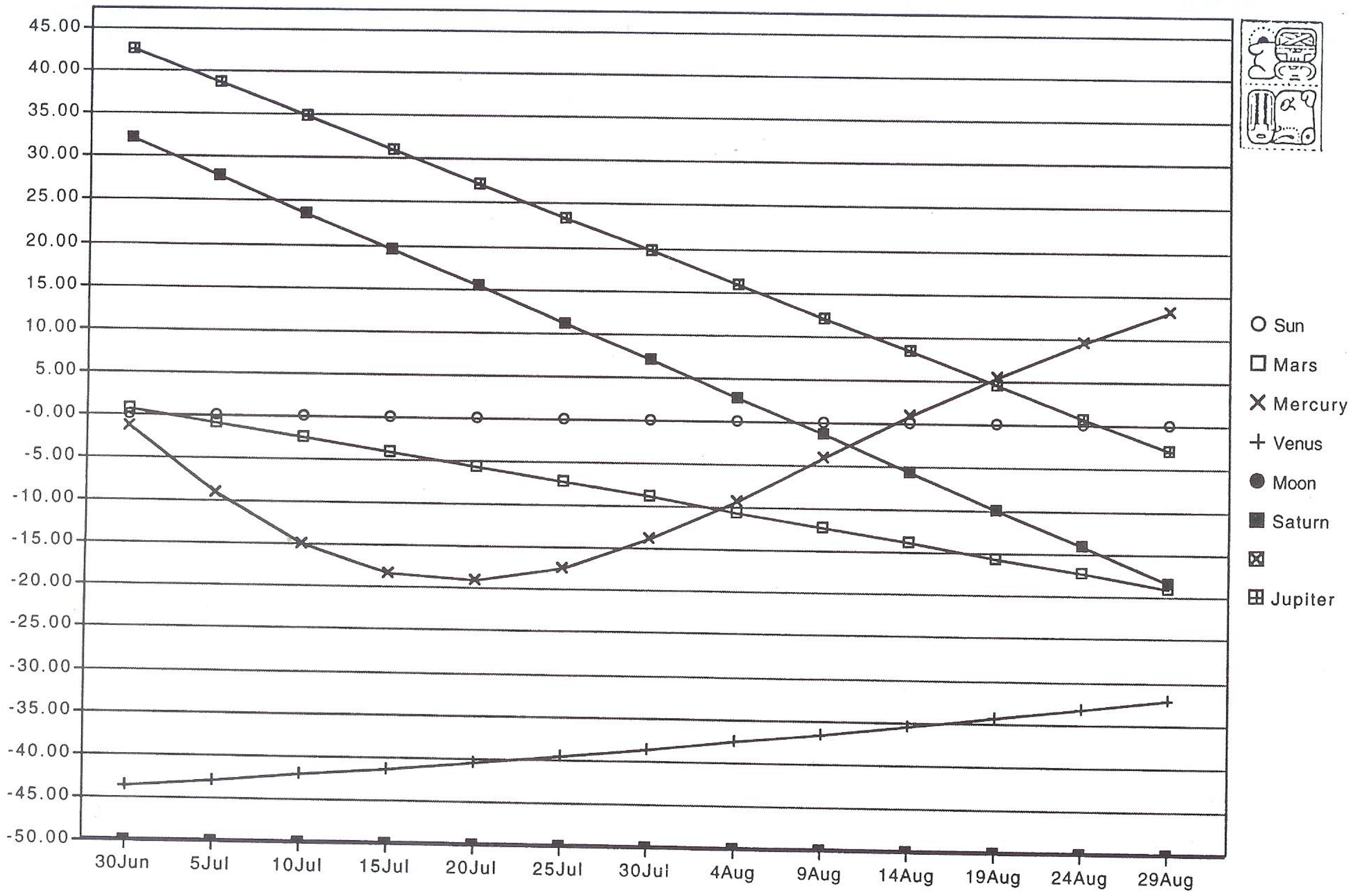
#30

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 14.7.17

Corr.Const.
584285

Gregorian
Julian
Mayan

Tues 3 February 770 A.D.
30 January 770 A.D.
9.16.19.0.5 9 Chicchan 3 Pop



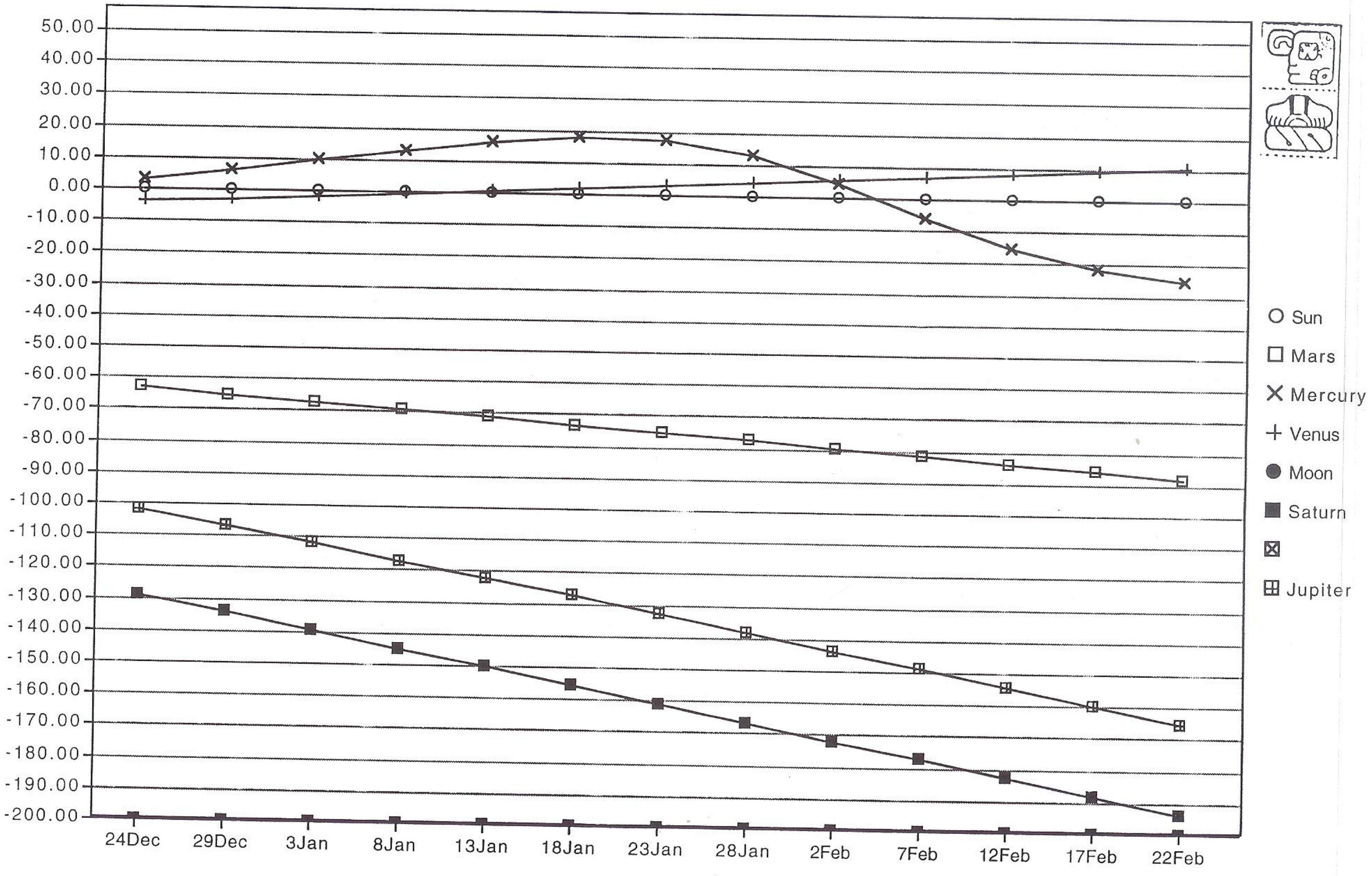
#31

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 14.16.14

Corr.Const.
584285

Gregorian
Julian
Mayan

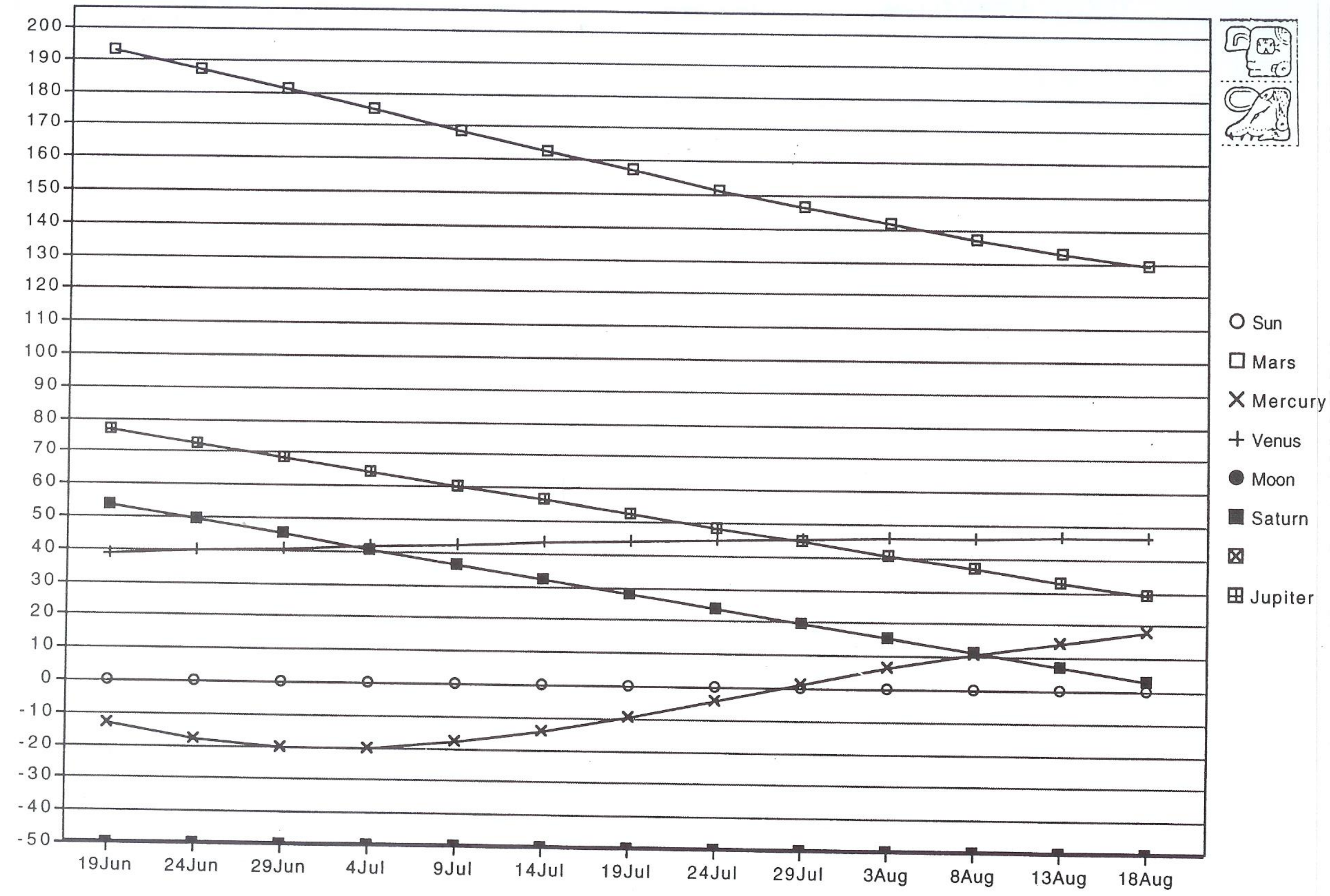
Thur 30 July 770 A.D.
26 July 770 A.D.
9.16.19.9.2 4 Ik 0 Yax



#32

Elongations from Sun in intervals of 5 days.
Negative is Morning Star.
9.16.4.10.8 + 15.7.11

Gregorian		Sat 23 January 771 A.D.
Julian		19 January 771 A.D.
Mayan	9.16.19.17.19	12 Cauac 17 Cumku
Correlation Constant		584,285

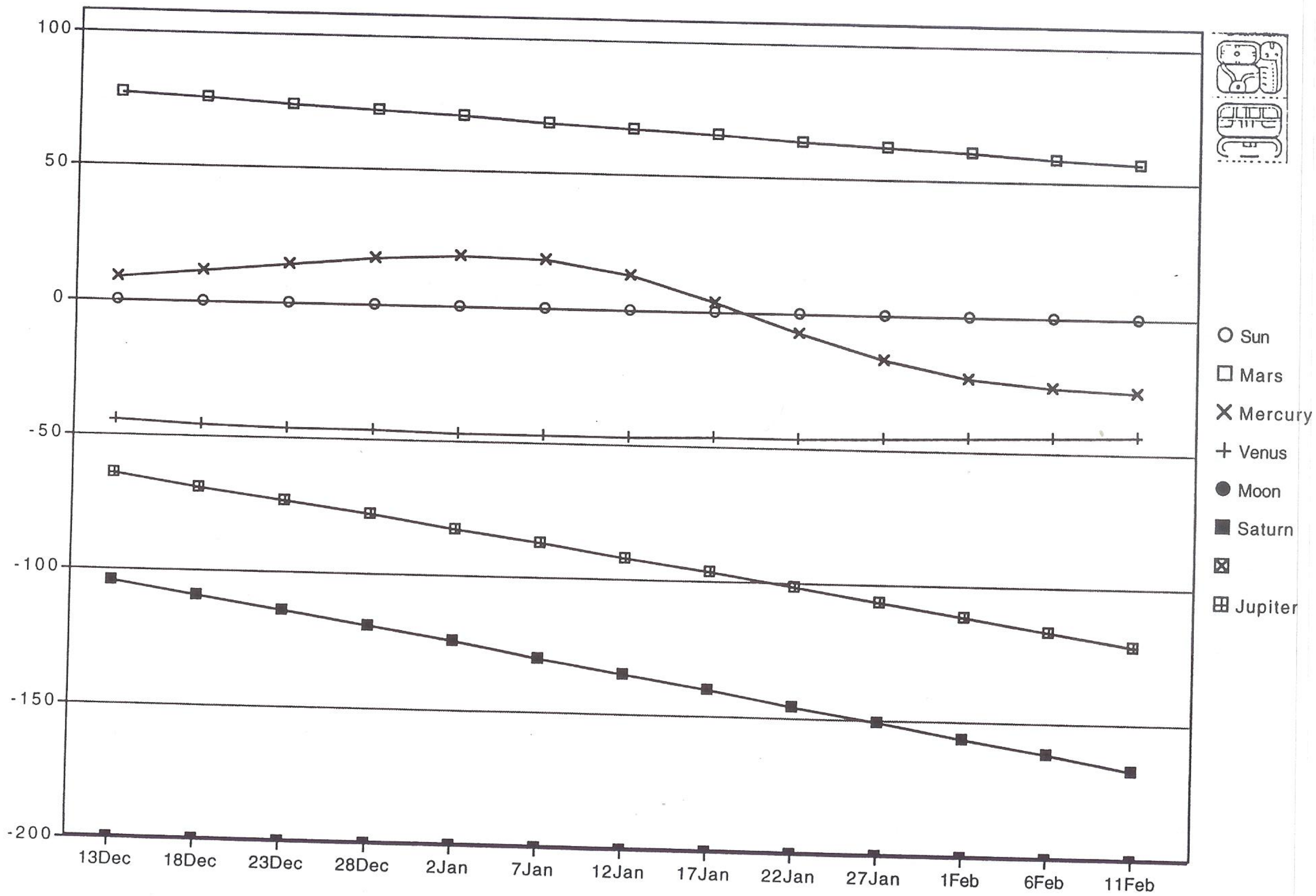


#33

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 15.16.8

Corr.Const.
584285

Gregorian	Mon 19 July 771 A.D.
Julian	15 July 771 A.D.
Mayan	9.17.0.8.16 7 Cib 9 Ch'en

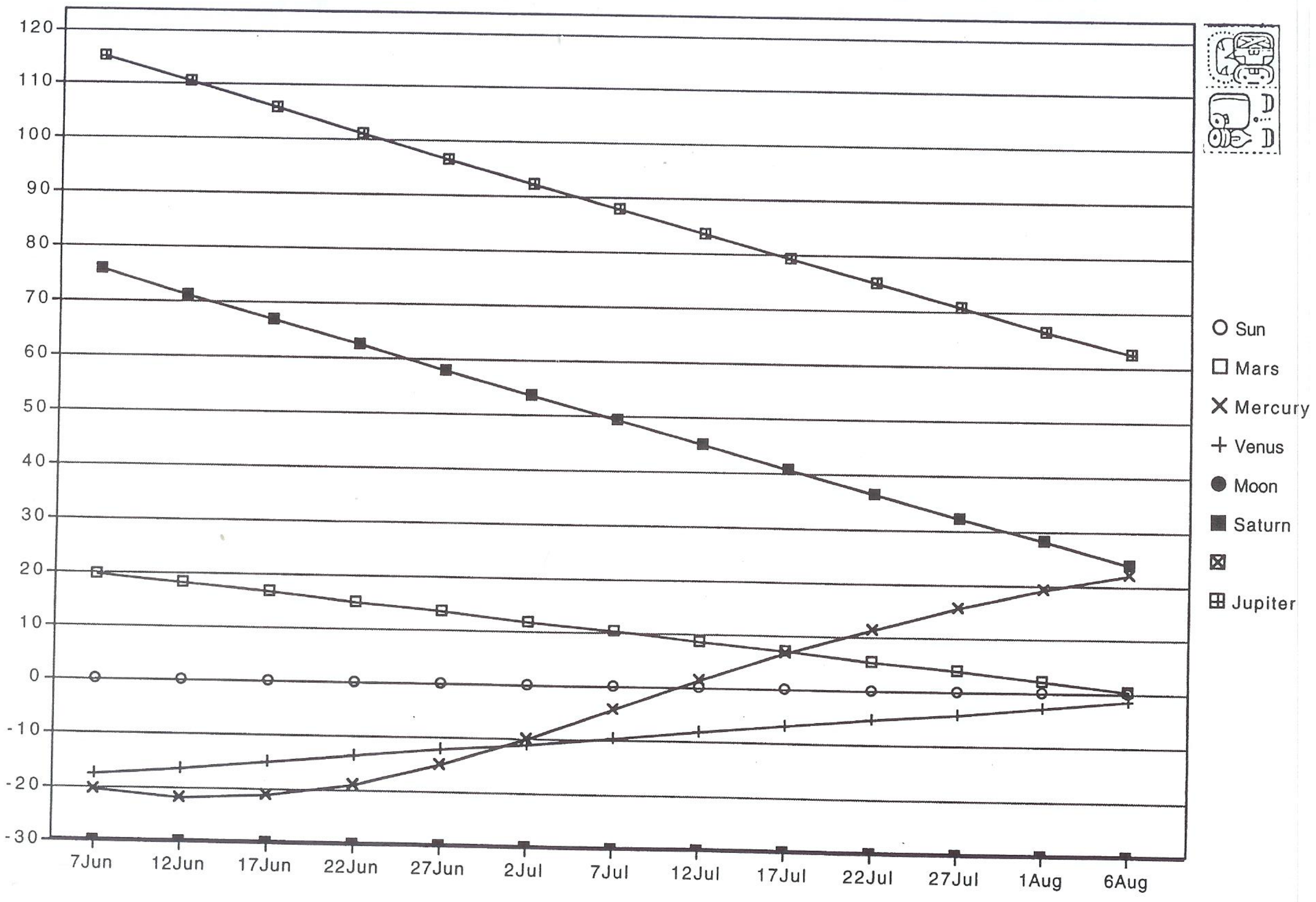


#34

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 16.7.5

Corr.Const.
584285

Gregorian	Wed 12 January		772 A.D.
Julian	8 January		772 A.D.
Mayan	9.17.0.17.13	2 Ben	6 Cumku

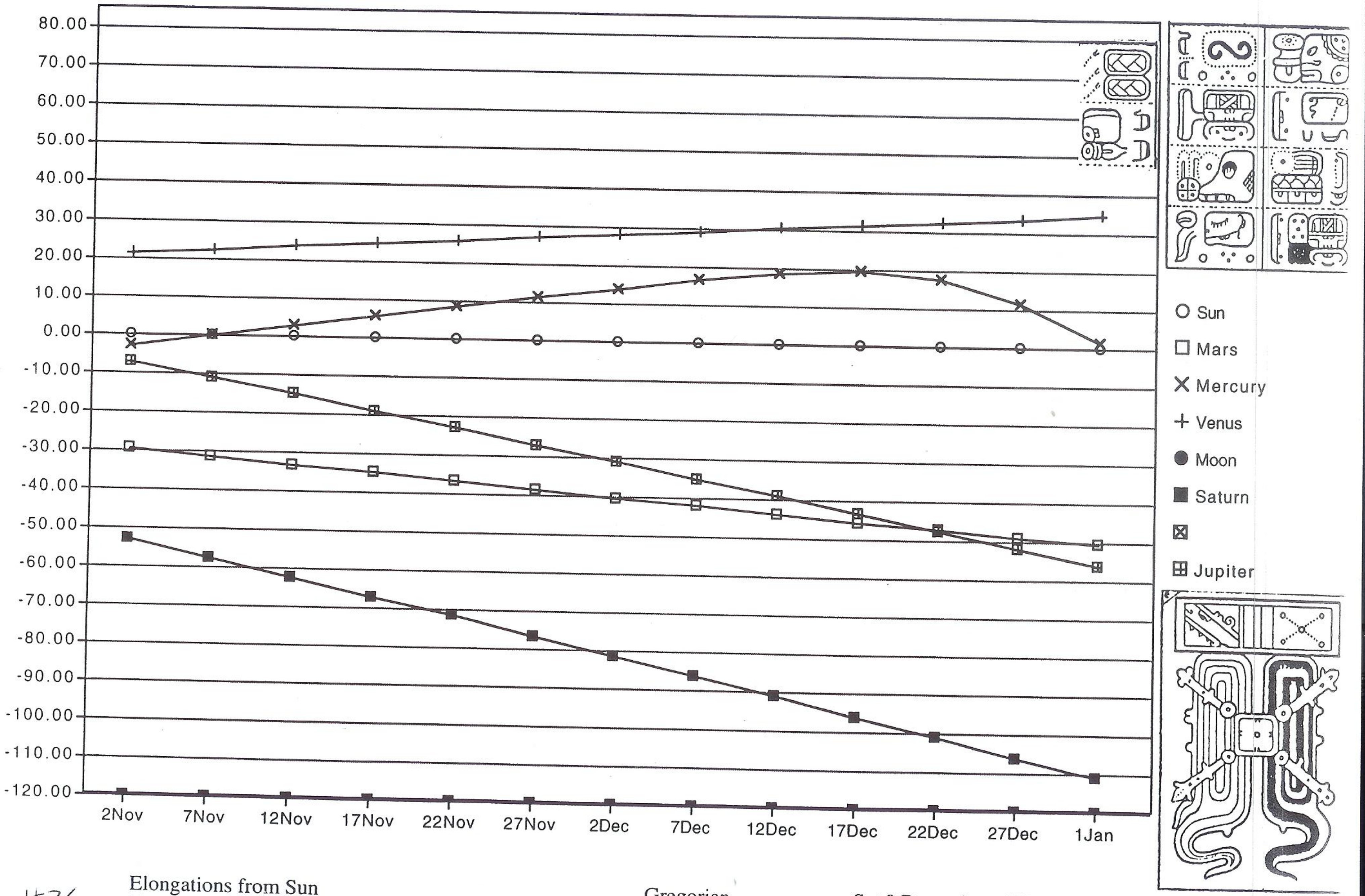


#35

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 16.16.2

Corr.Const.
584285

Gregorian Fri 7 July 772 A.D.
Julian 3 July 772 A.D.
Mayan 9.17.1.8.10 10 Oc 18 Mol

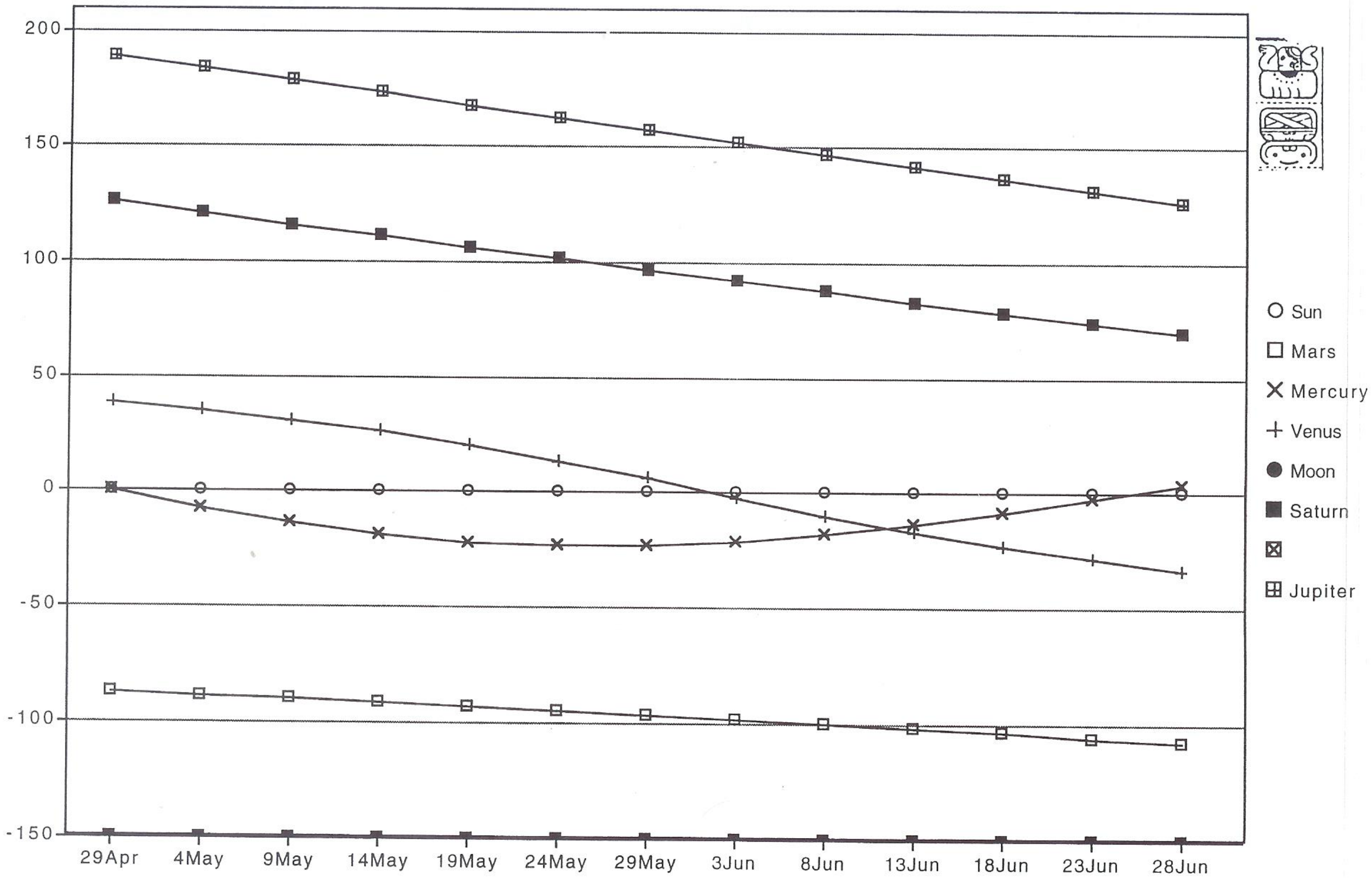


#36

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 17.5.10

Corr.Const.
584285

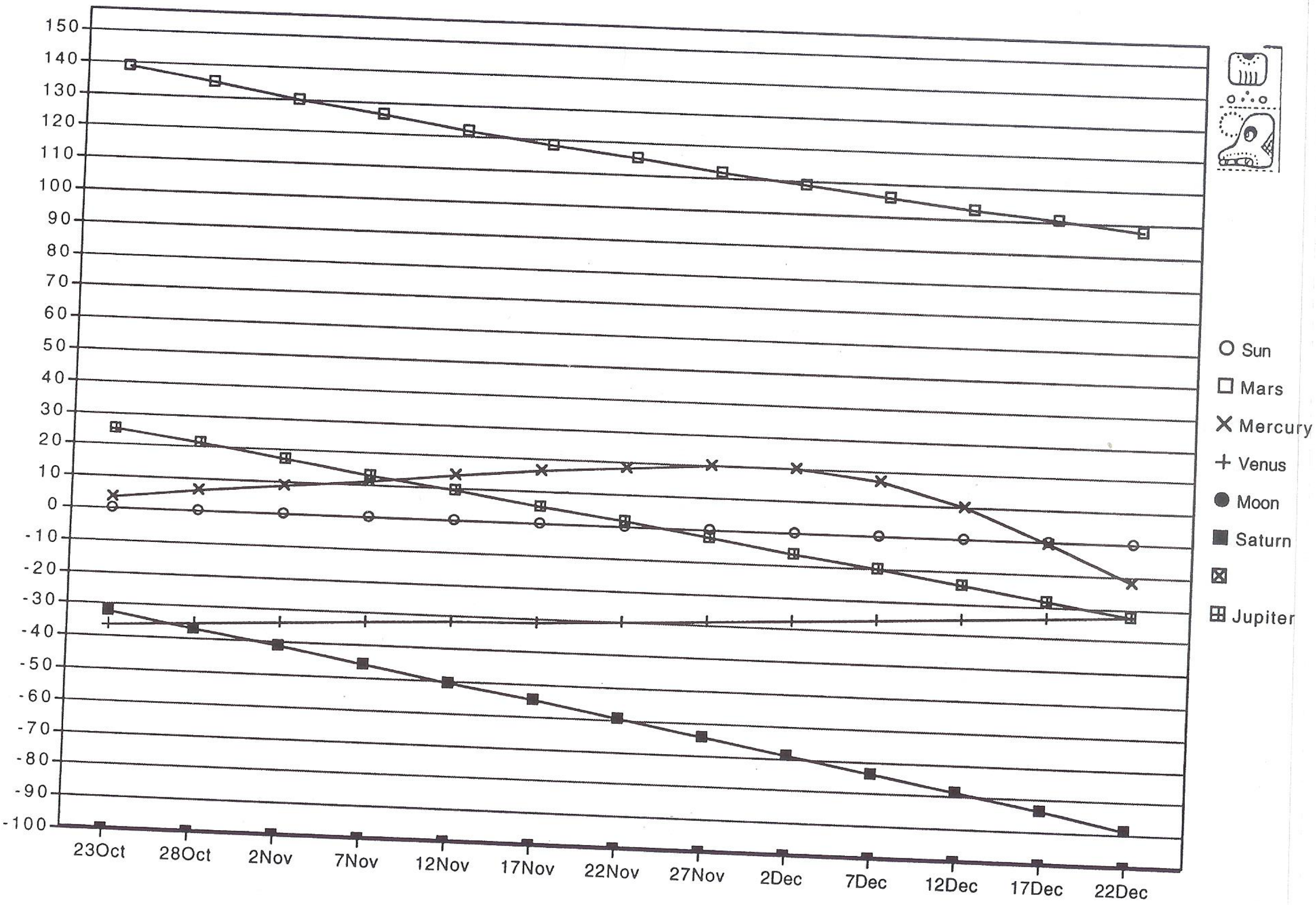
Gregorian	Sat 2 December	772 A.D.
Julian	28 November	772 A.D.
Mayan	9.17.1.15.18	2 Etz'nab 6 Pax



#37

Elongations from Sun in intervals of 5 days.
Negative is Morning Star.
9.16.4.10.8 + 17.14.8

Gregorian		Tues 29 May 773 A.D.
Julian		25 May 773 A.D.
Mayan	9.17.2.6.16	11 Cib 19 Xul
Correlation Constant		584,285

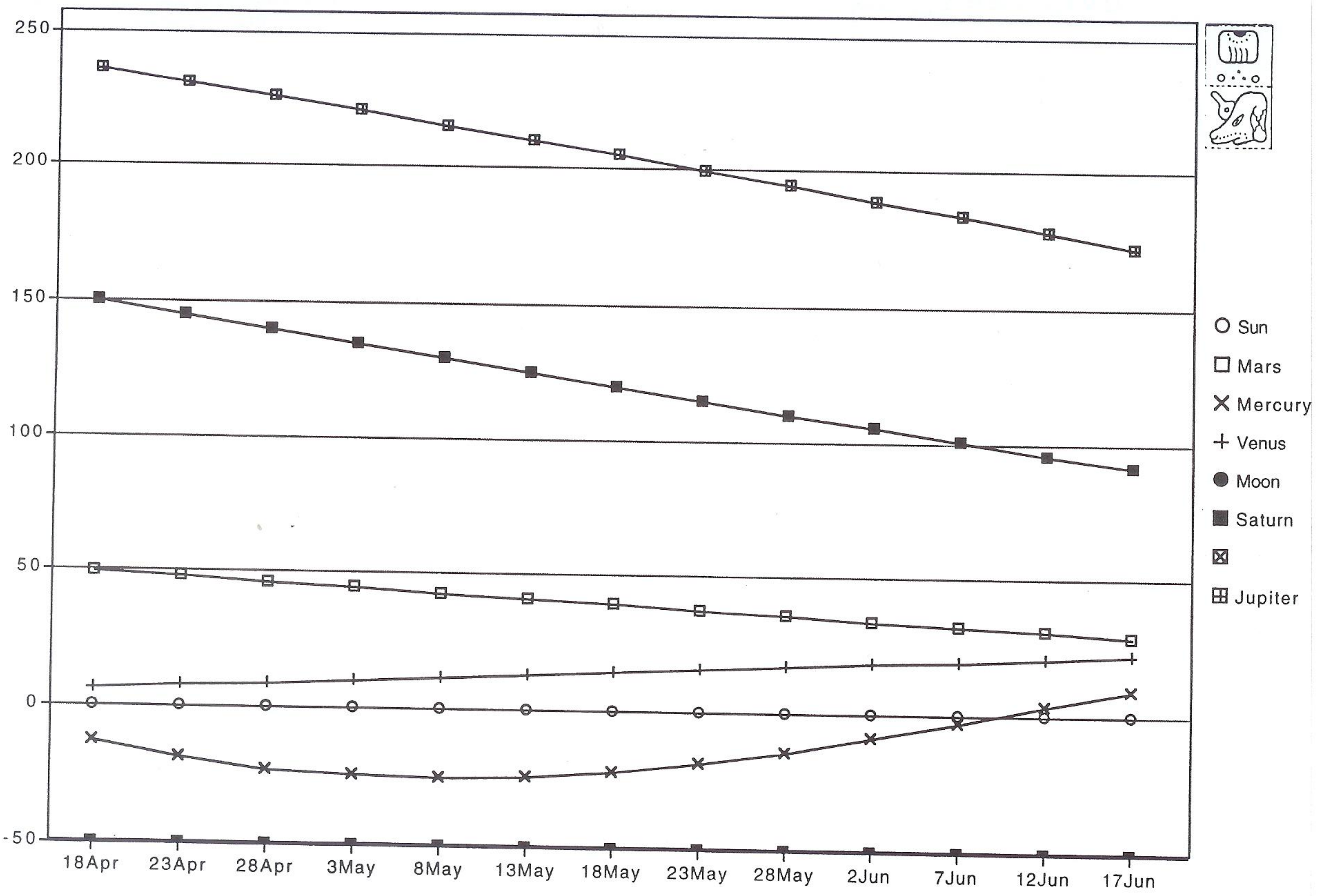


#38

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 18.5.5

Corr.Const.
584285

Gregorian	Thur 22 November	773 A.D.
Julian	18 November	773 A.D.
Mayan	9.17.2.15.13 6 Ben	16 Muan

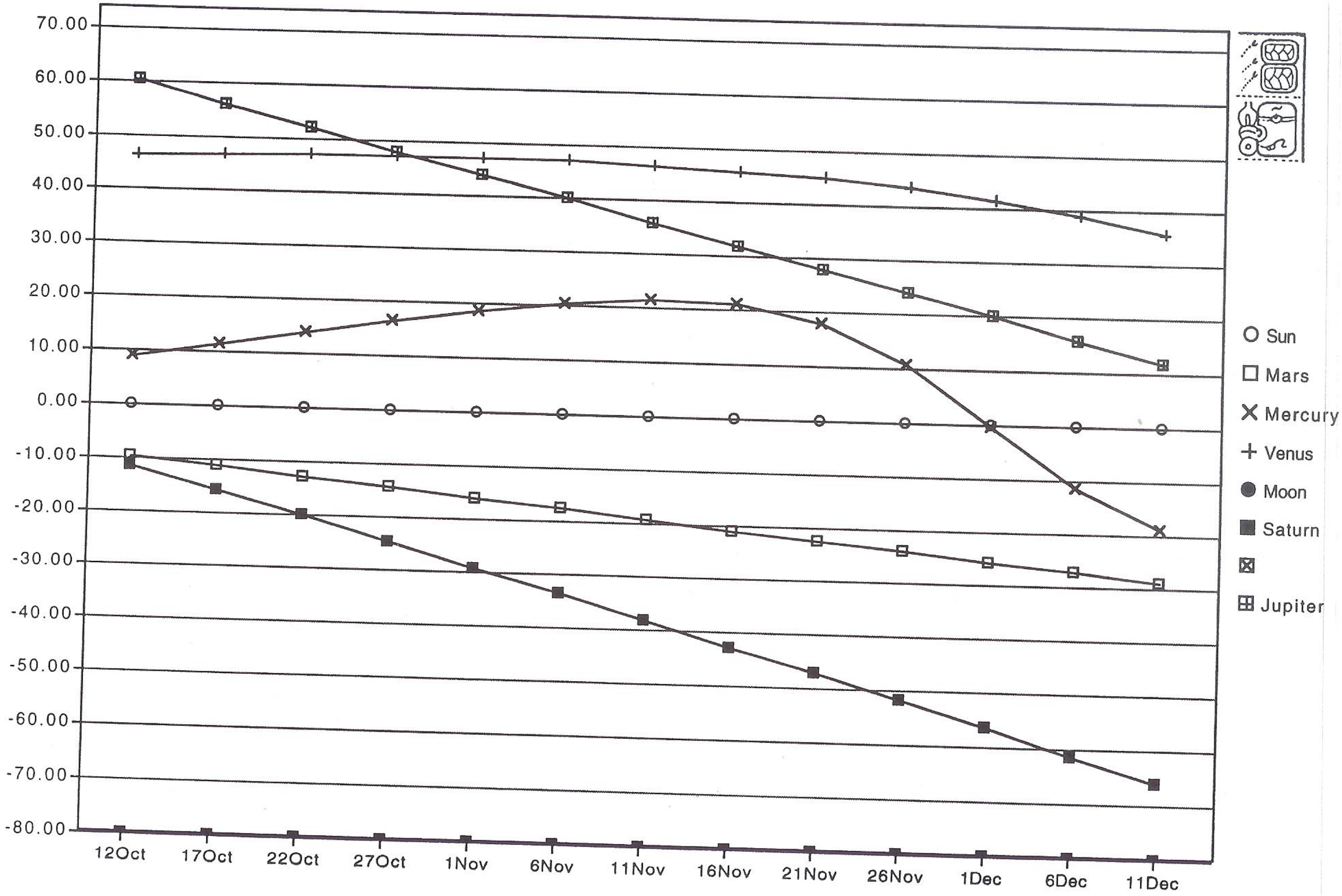


#39

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 18.14.2

Corr.Const.
584285

Gregorian Sat 18 May 774 A.D.
Julian 14 May 774 A.D.
Mayan 9.17.3.6.10 1 Oc 8 Xul

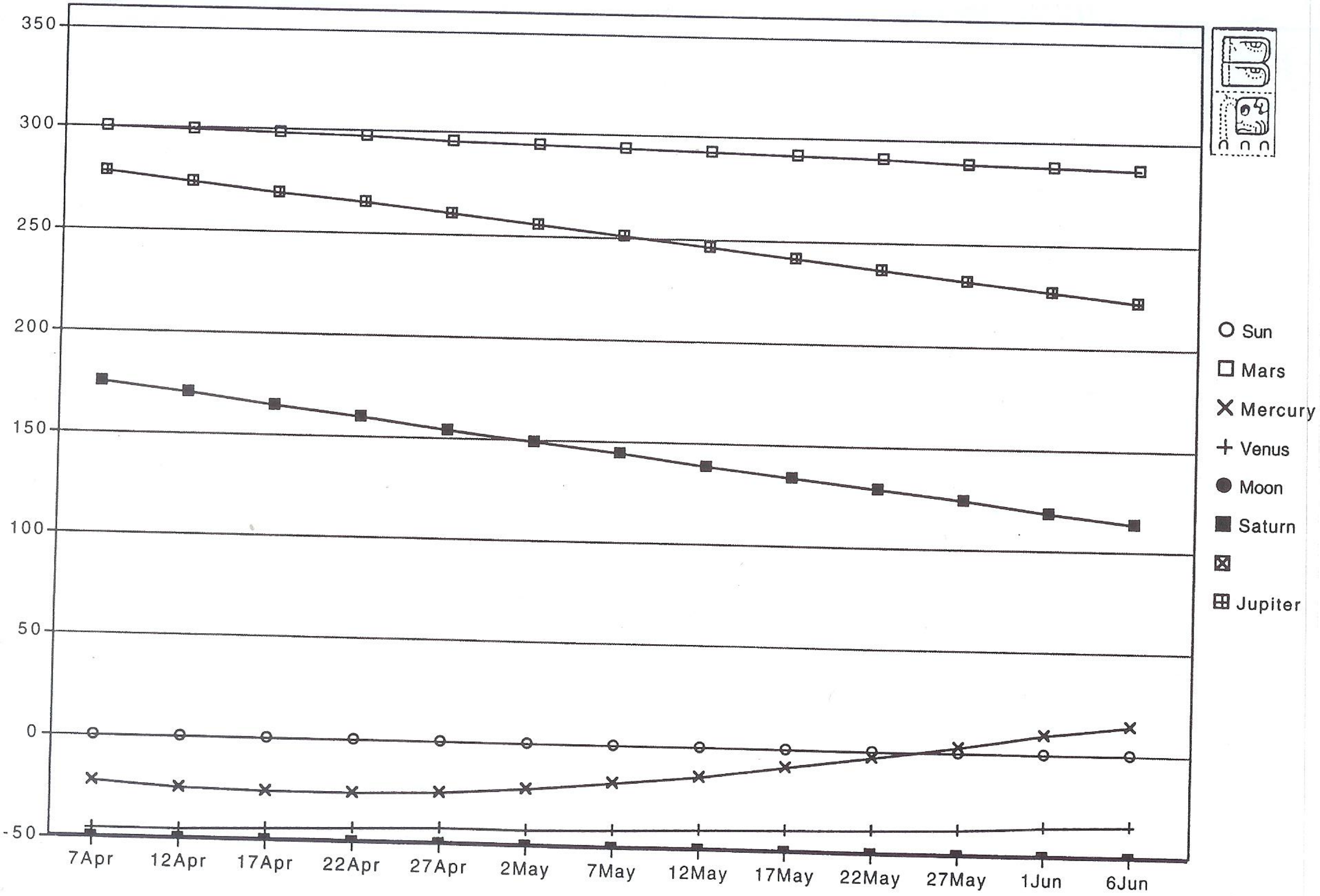


#40

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 19.4.19

Corr.Const.
584285

Gregorian	Mon 11 November	774 A.D.
Julian	7 November	774 A.D.
Mayan	9.17.3.15.7 9 Manik	5 Muan

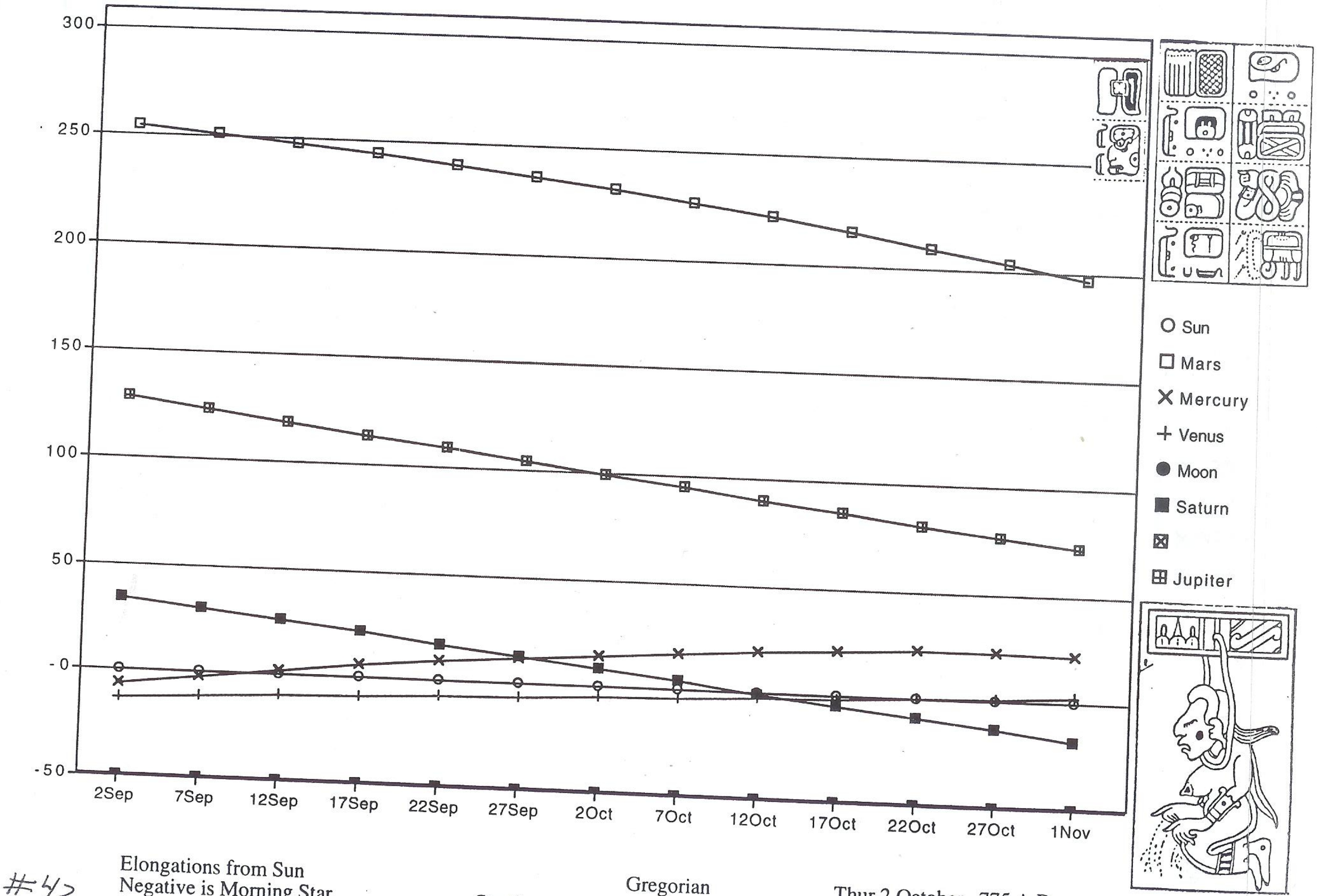


#41

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 19.13.16

Corr.Const.
584285

Gregorian Wed 7 May 775 A.D.
Julian 3 May 775 A.D.
Mayan 9.17.4.6.4 4 Kan 17 Zec

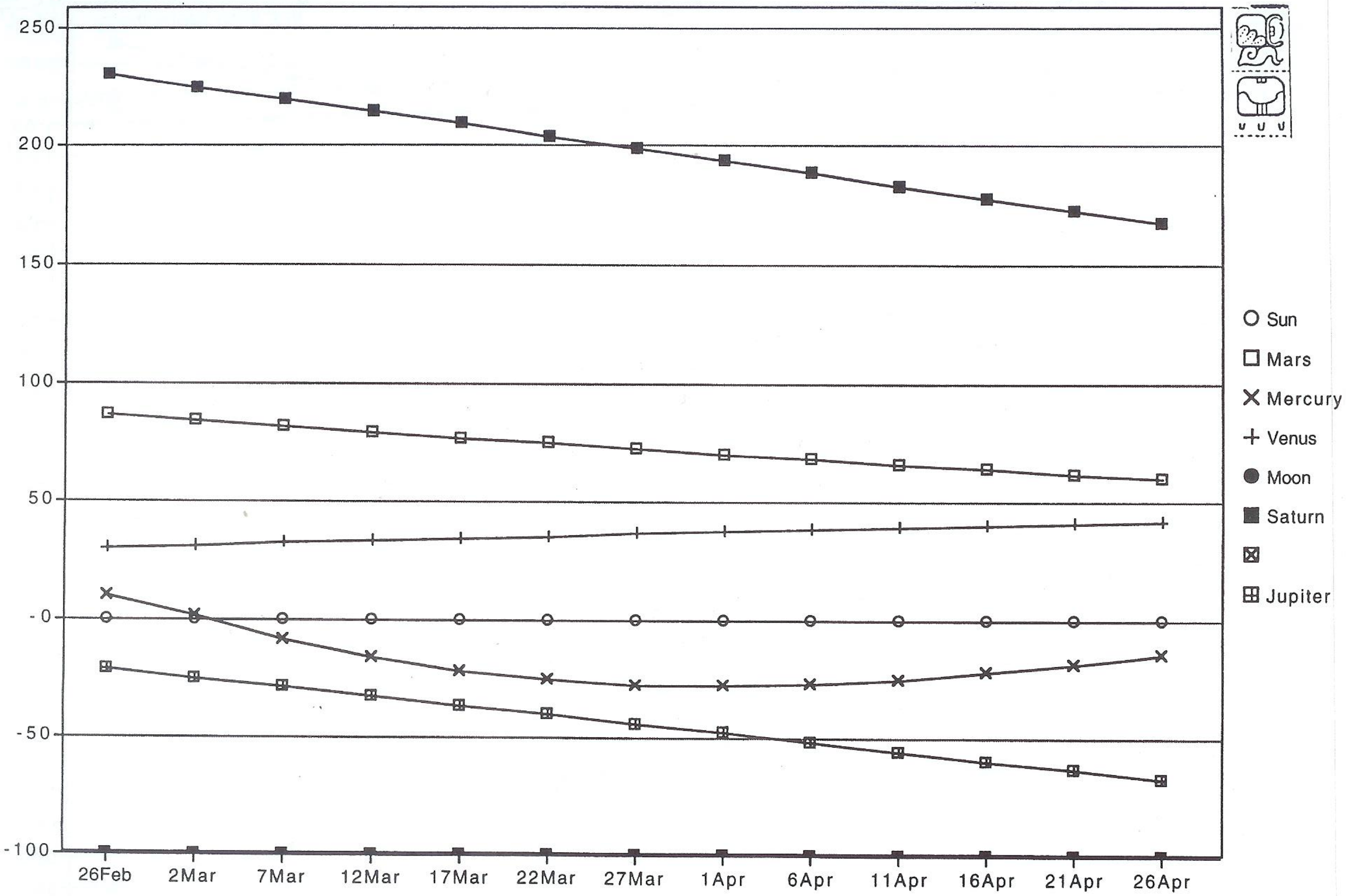


#42

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.0.3.4

Corr.Const.
584285

Gregorian	Thur 2 October 775 A.D.
Julian	28 September 775 A.D.
Mayan	9.17.4.13.12 9 Eb 5 Mac

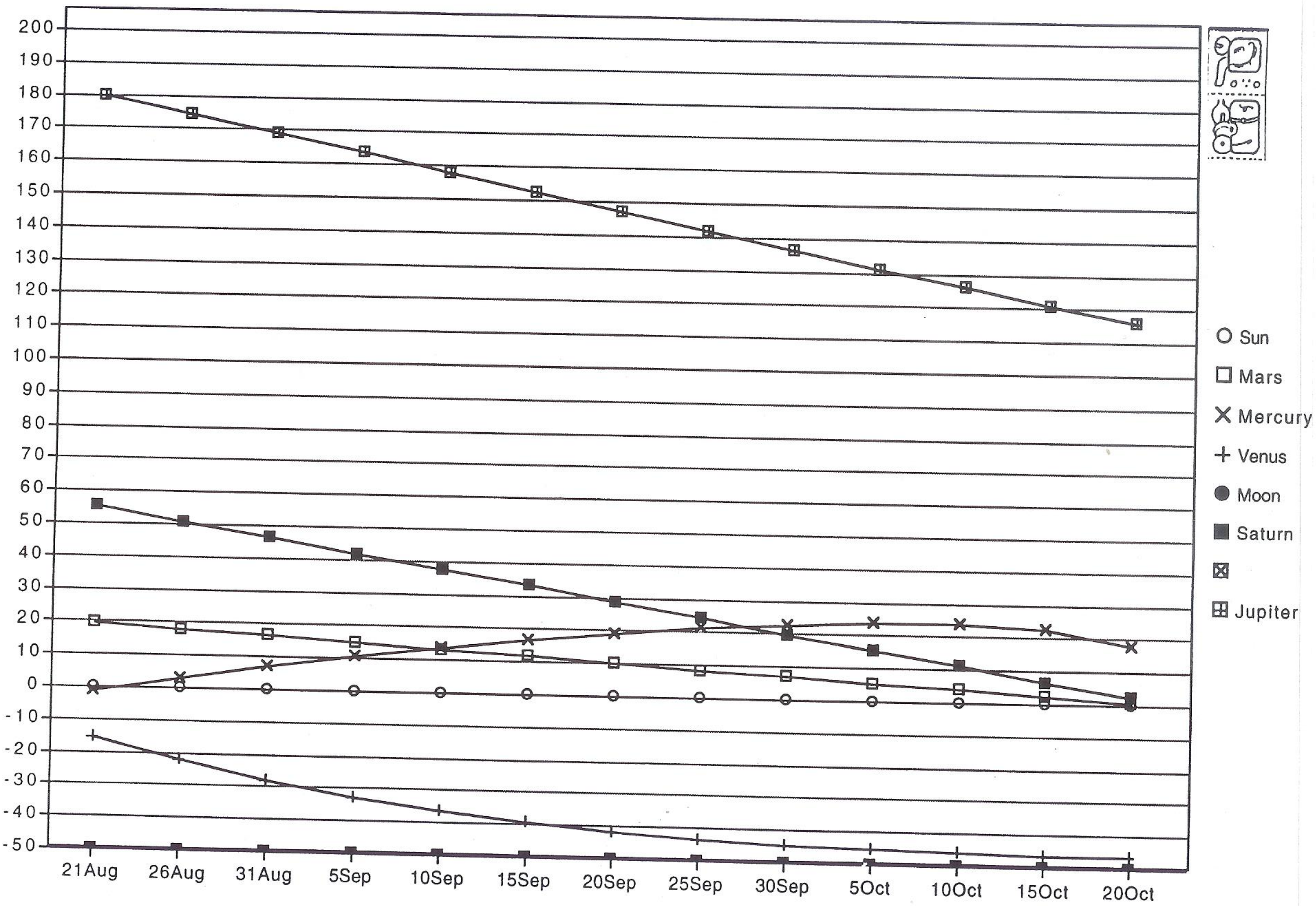


#-43

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.0.12.1

Corr.Const.
584285

Gregorian	Sat 27 March 776 A.D.
Julian	23 March 776 A.D.
Mayan	9.17.5.4.9 · 4 Muluc 17 Zip

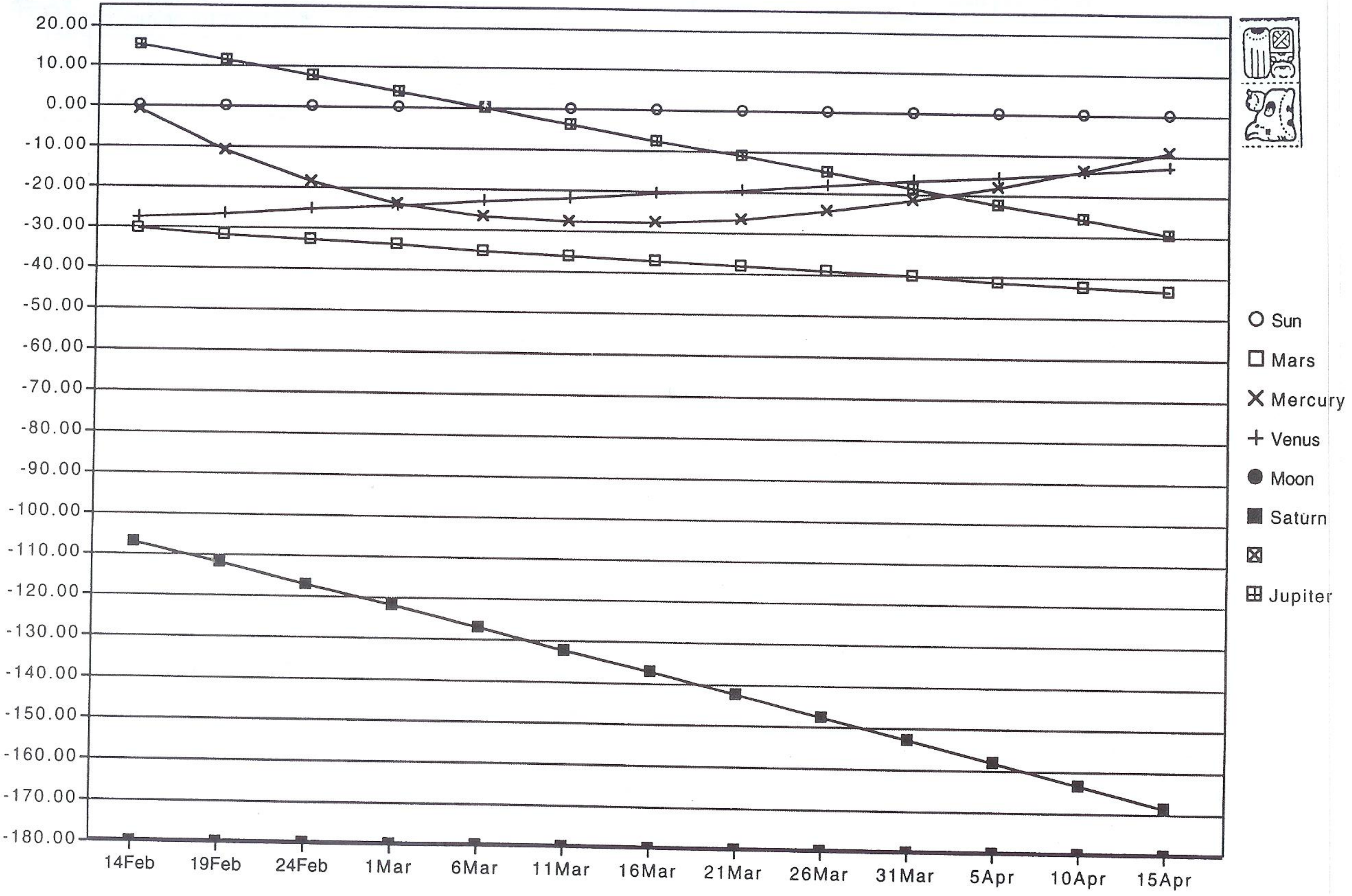


#44

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.1.2.18

Corr.Const.
584285

Gregorian Mon 20 September 776 A.D.
Julian 16 September 776 A.D.
Mayan 9.17.5.13.6 12 Cimi 14 Ceh

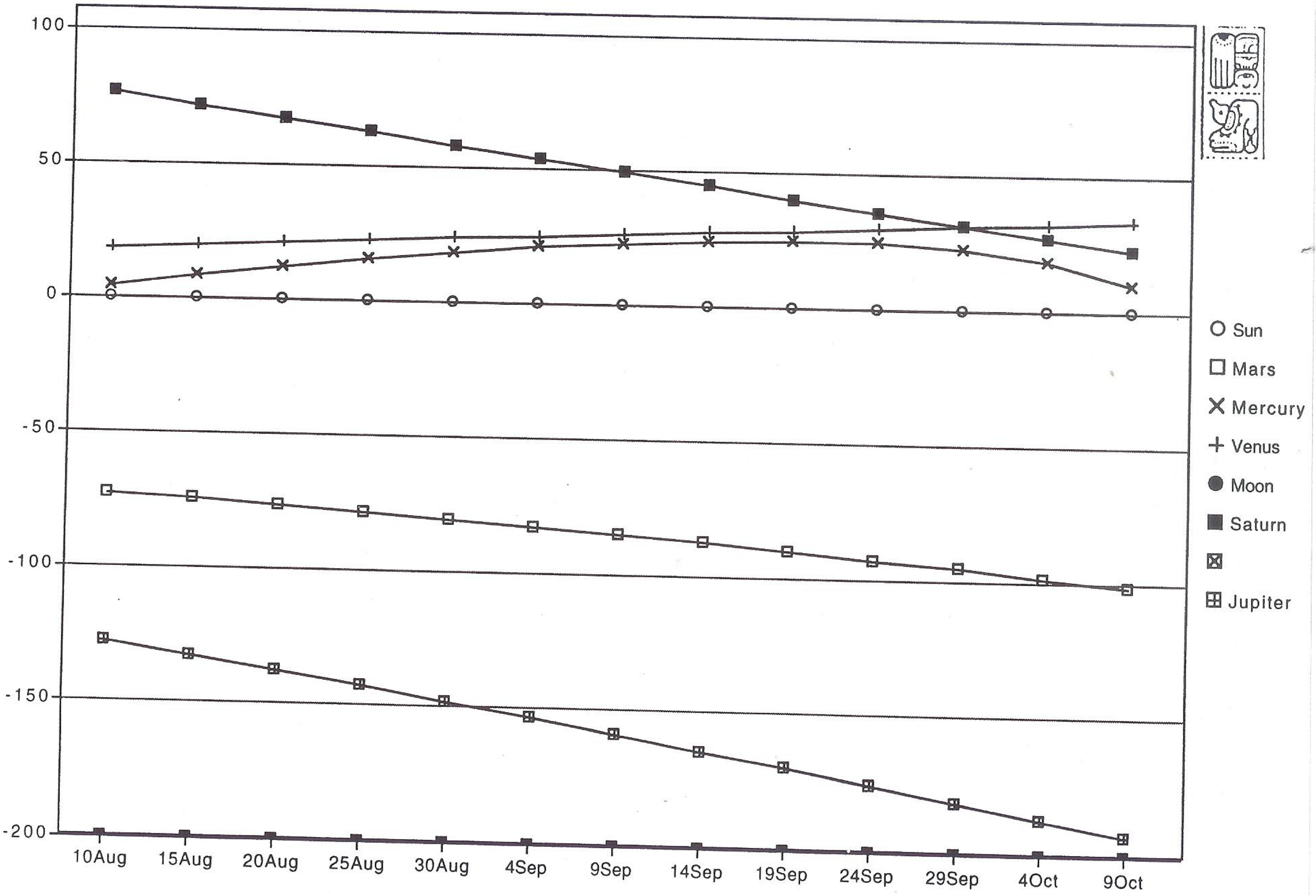


#45

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.1.11.15

Corr.Const.
584285

Gregorian Wed 16 March 777 A.D.
Julian 12 March 777 A.D.
Mayan 9.17.6.4.3 7 Akbal 6 Zip

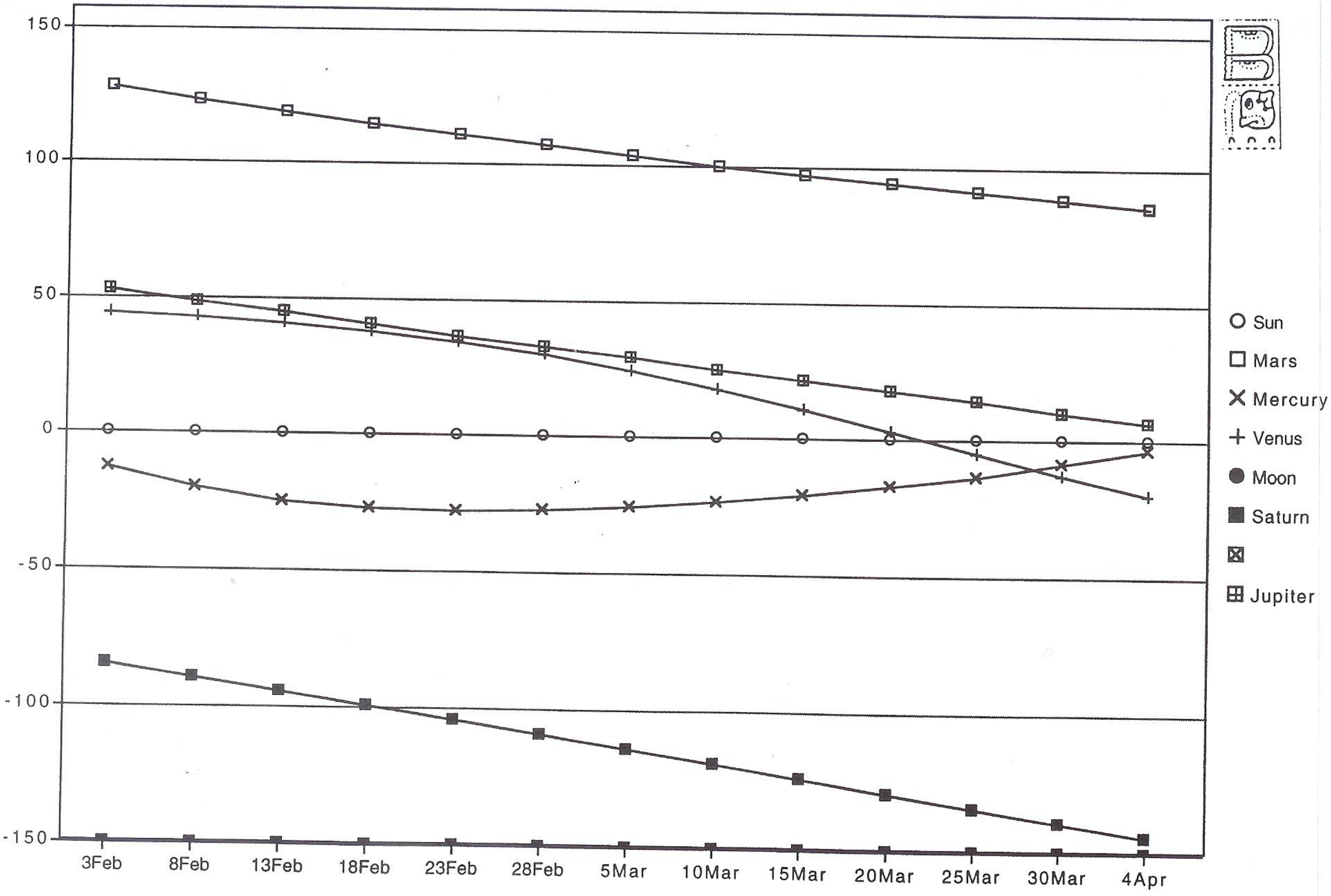


#46

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.2.2.12

Corr.Const.
584285

Gregorian	Fri 9 September	777 A.D.
Julian	5 September	777 A.D.
Mayan	9.17.6.13.0	2 Ahau 3 Ceh

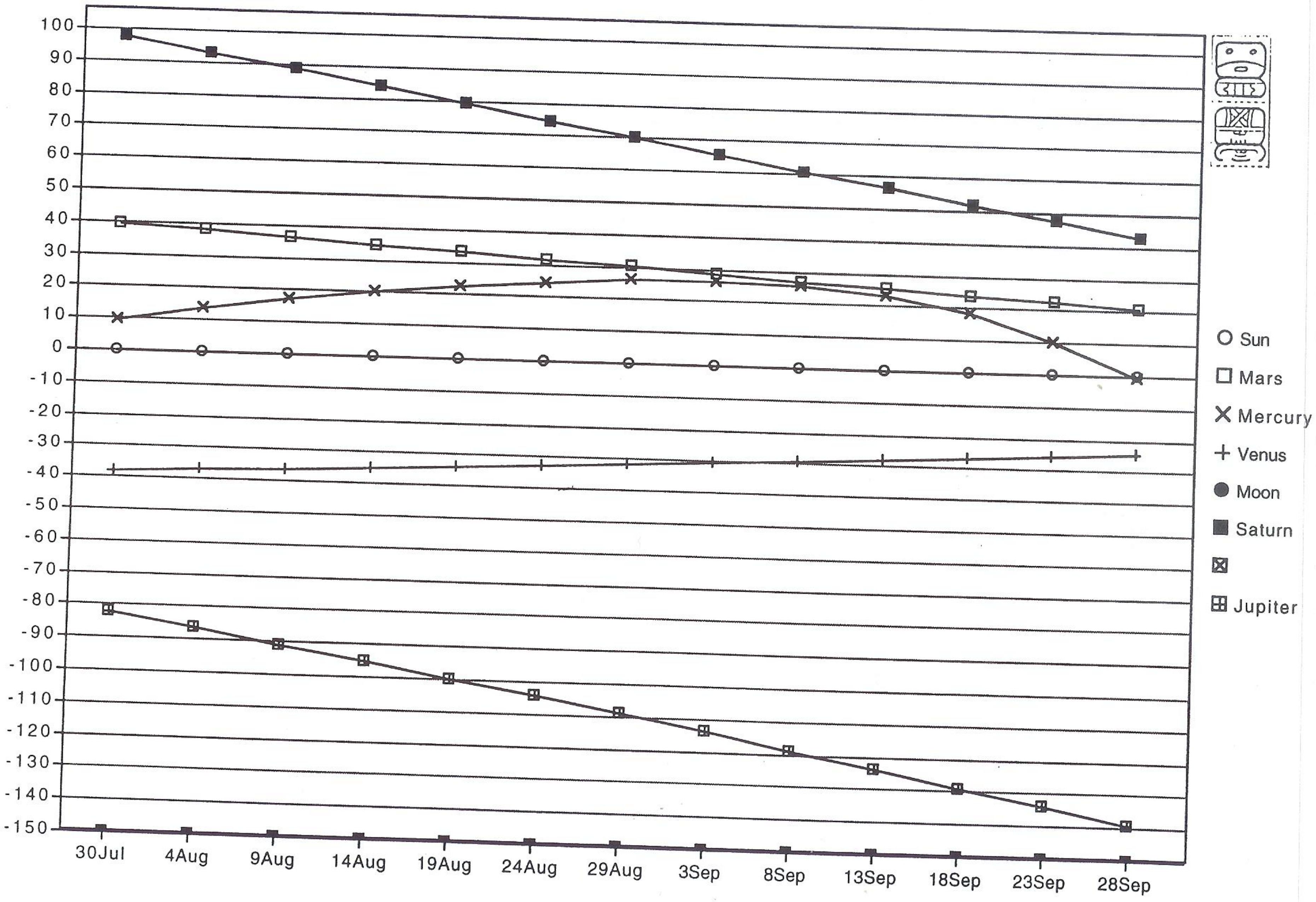


#47

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.2.11.9

Corr.Const.
584285

Gregorian Sun 5 March 778 A.D.
Julian 1 March 778 A.D.
Mayan 9.17.7.3.17 10 Caban 15 Uo

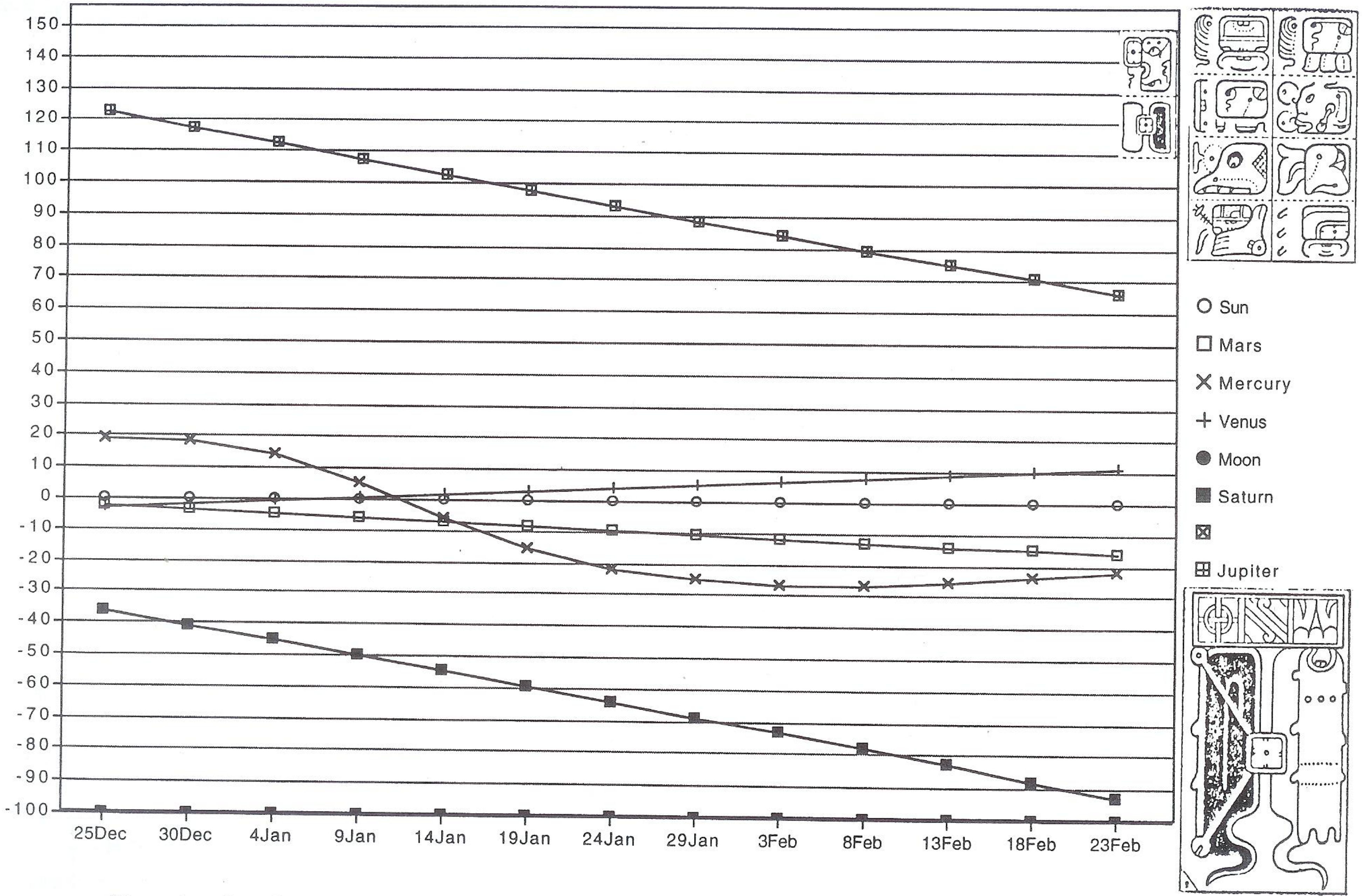


#48

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.3.2.6

Corr.Const.
584285

Gregorian	Tues 29 August 778 A.D.
Julian	25 August 778 A.D.
Mayan	9.17.7.12.14 5 Ix 12 Zac

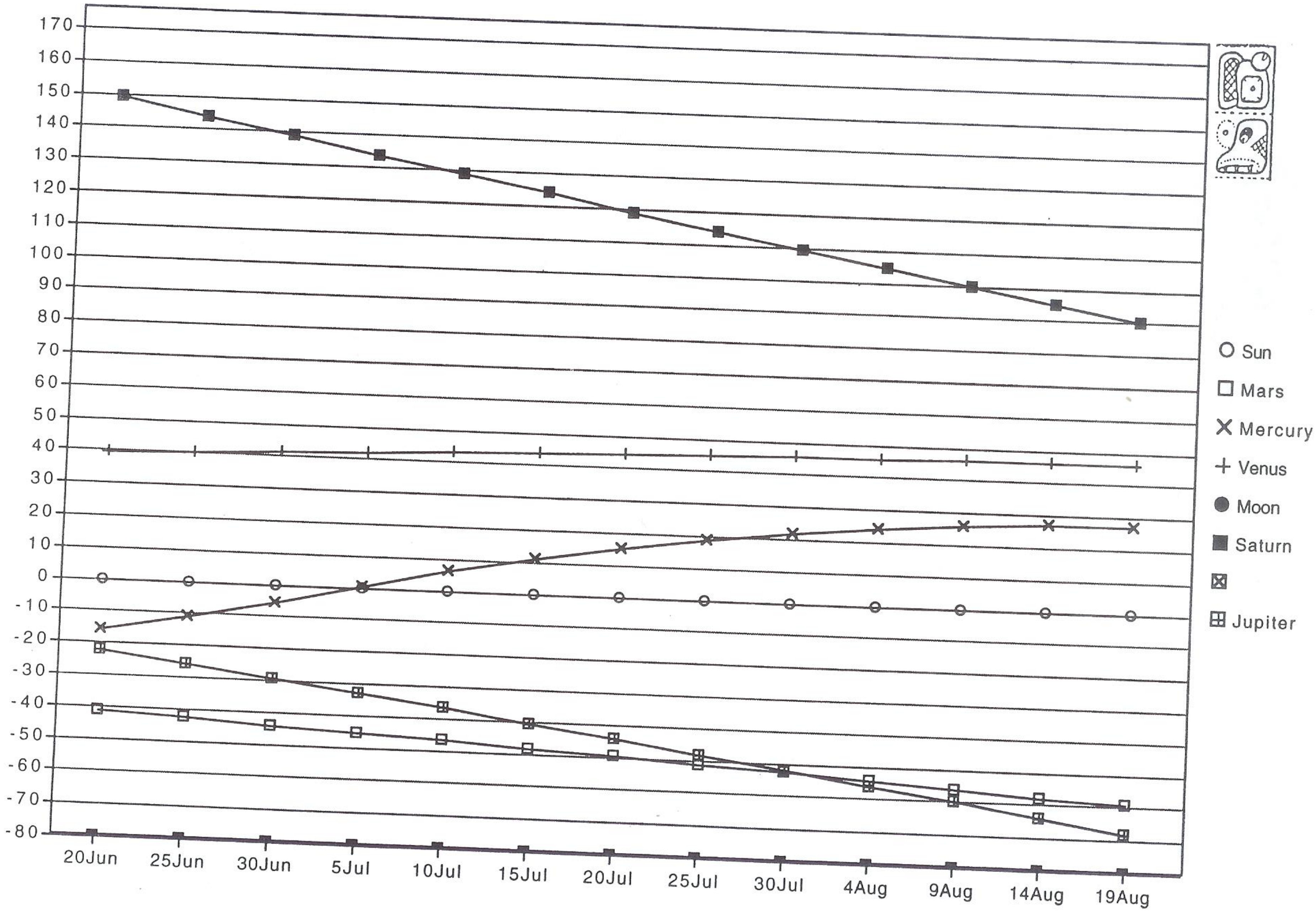


#49

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.3.9.14

Corr.Const.
584285

Gregorian	Wed 24 January 779 A.D.
Julian	20 January 779 A.D.
Mayan	9.17.8.2.2 10 Ik 0 Uayeb

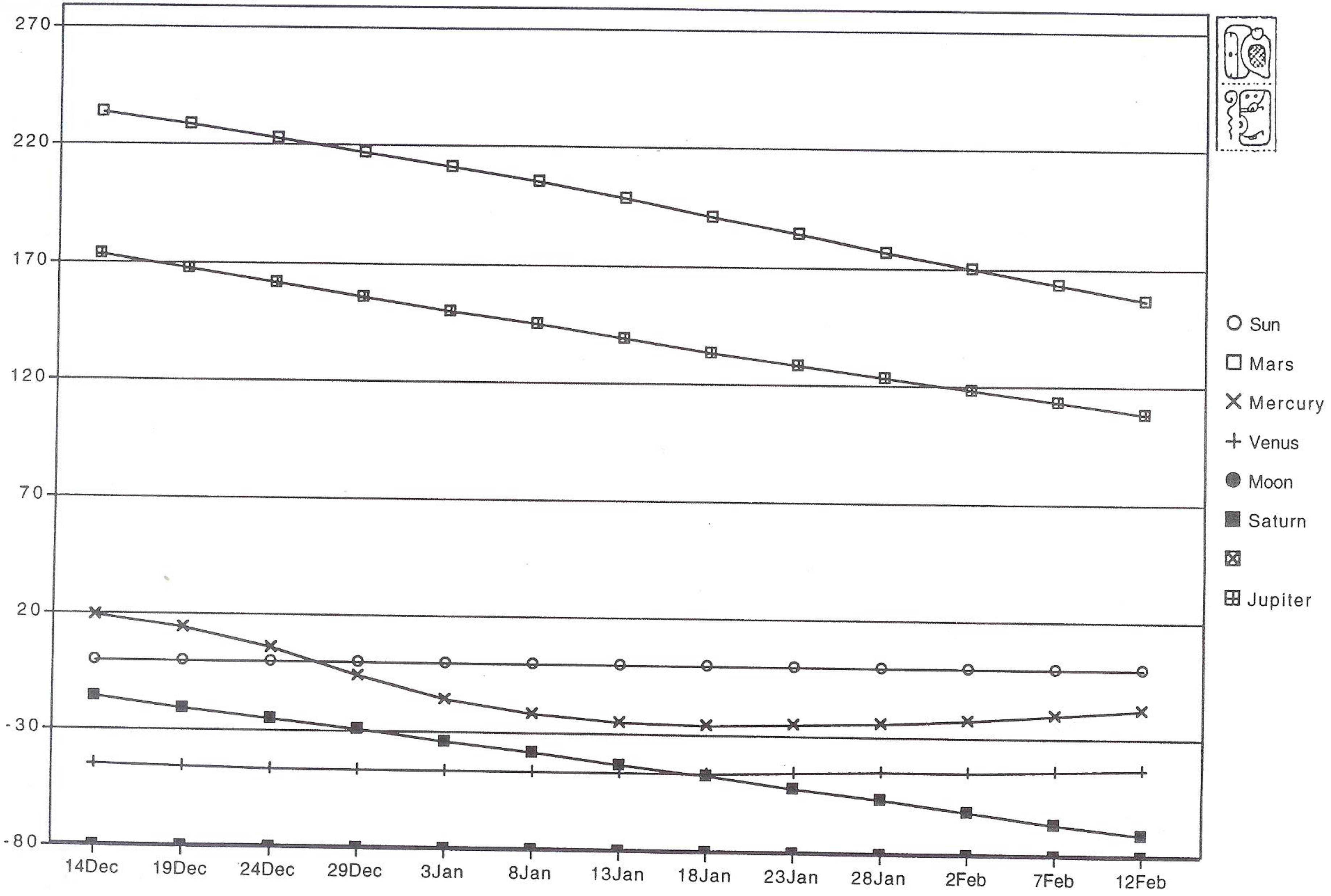


#50

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.4.0.11

Corr.Const.
584285

Gregorian Fri 20 July 779 A.D.
Julian 16 July 779 A.D.
Mayan 9.17.8.10.19 5 Cauac 12 Ch'en

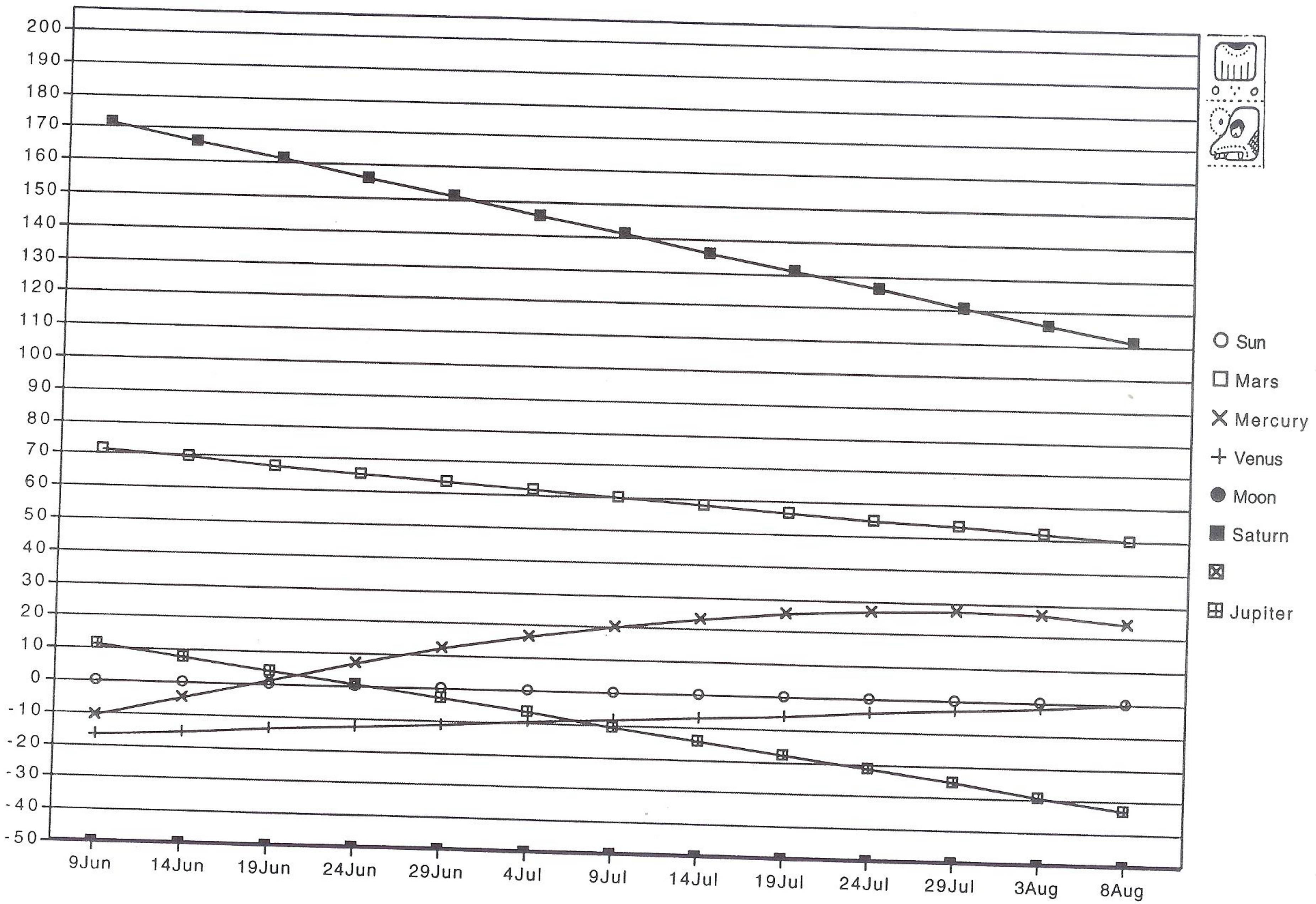


#51

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.4.9.8

Corr.Const.
584285

Gregorian Sun 13 January 780 A.D.
Julian 9 January 780 A.D.
Mayan 9.17.9.1.16 13 Cib 9 Cumku

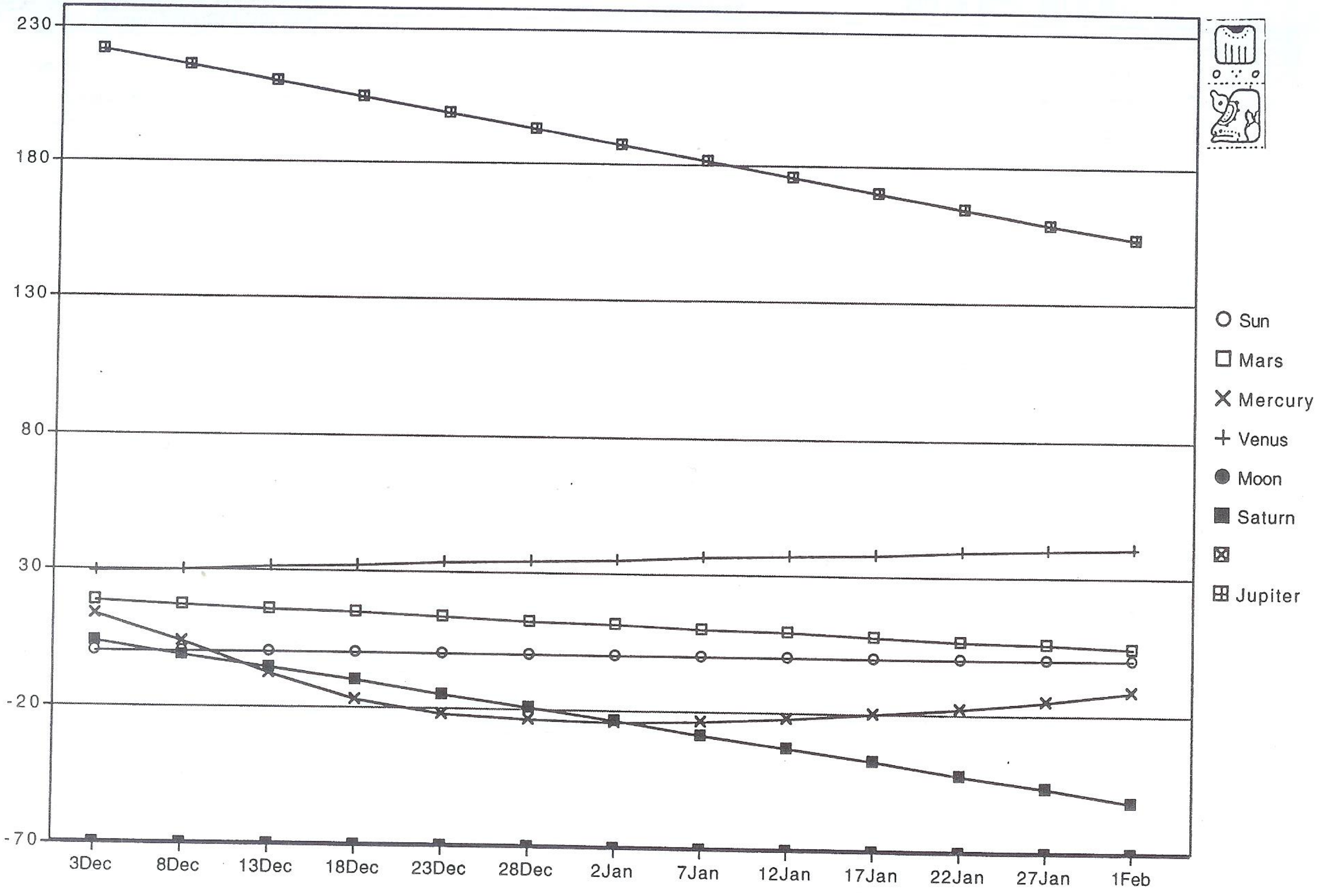


#52

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.5.0.6

Corr.Const.
584285

Gregorian Wed 9 July 780 A.D.
Julian 5 July 780 A.D.
Mayan 9.17.9.10.14 9 Ix 2 Ch'en

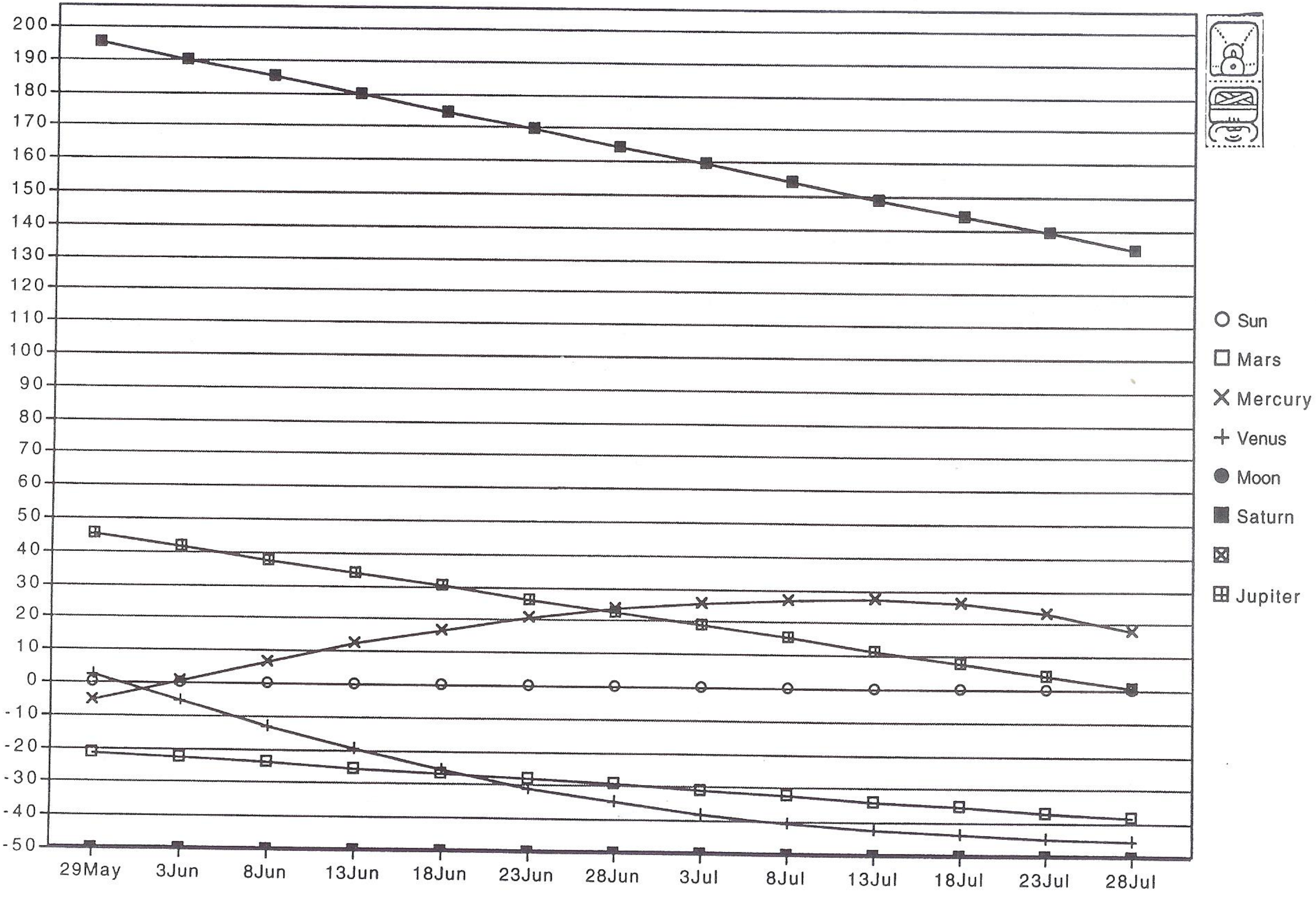


#53

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.5.9.3

Corr.Const.
584285

Gregorian		Fri 2 January	781 A.D.
Julian		29 December	780 A.D.
Mayan	9.17.10.1.11	4 Chuen	19 Kayab

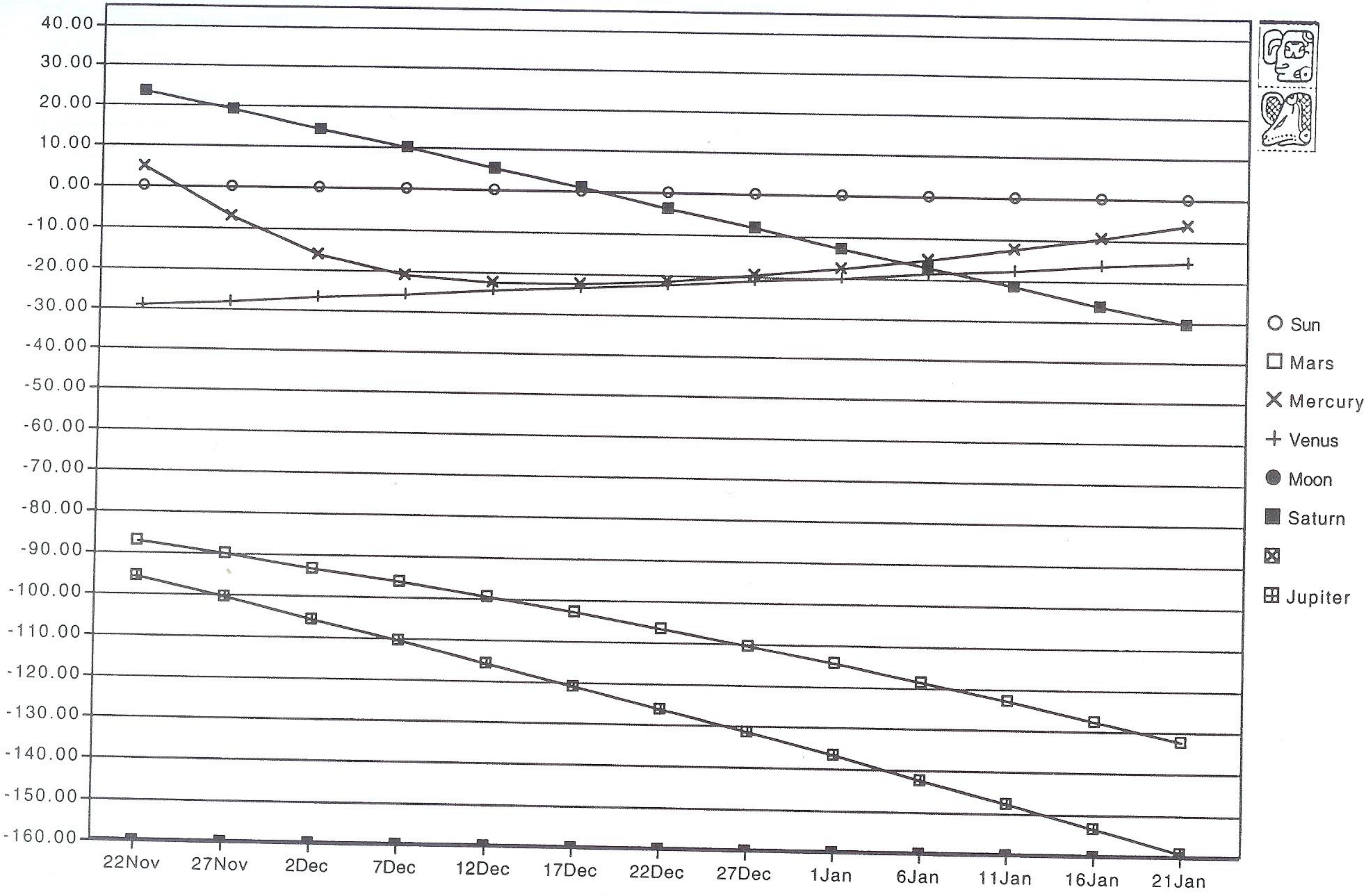


#54

EElongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.6.0.0

Corr.Const.
584285

Gregorian Sun 28 June 781 A.D.
Julian 24 June 781 A.D.
Mayan 9.17.10.10.8 12 Lamat 11 Mol

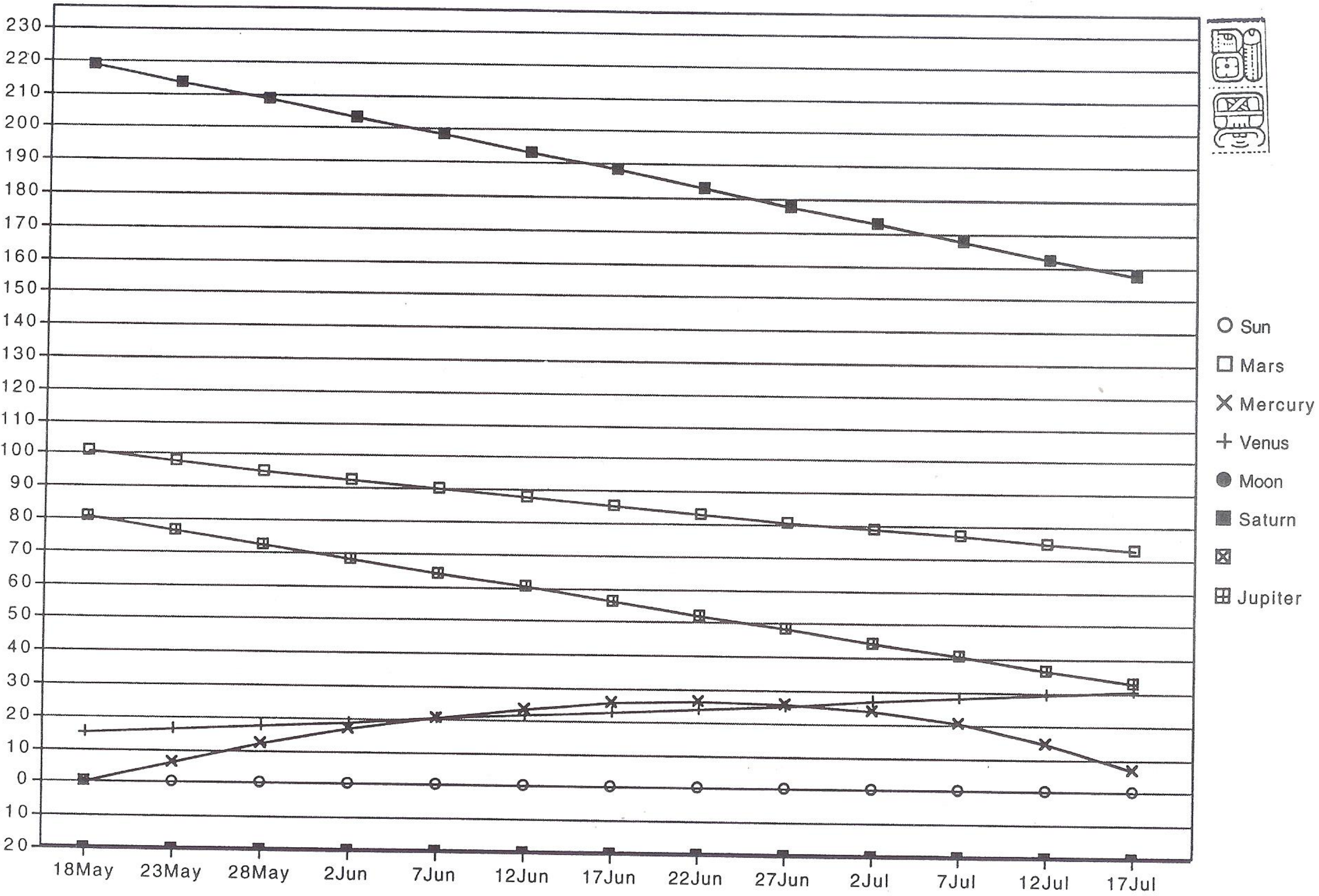


#55

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.6.8.17

Corr.Const.
584285

Gregorian	Tues	22 December	781 A.D.
Julian		18 December	781 A.D.
Mayan	9.17.11.1.5	7 Chicchan	8 Kayab

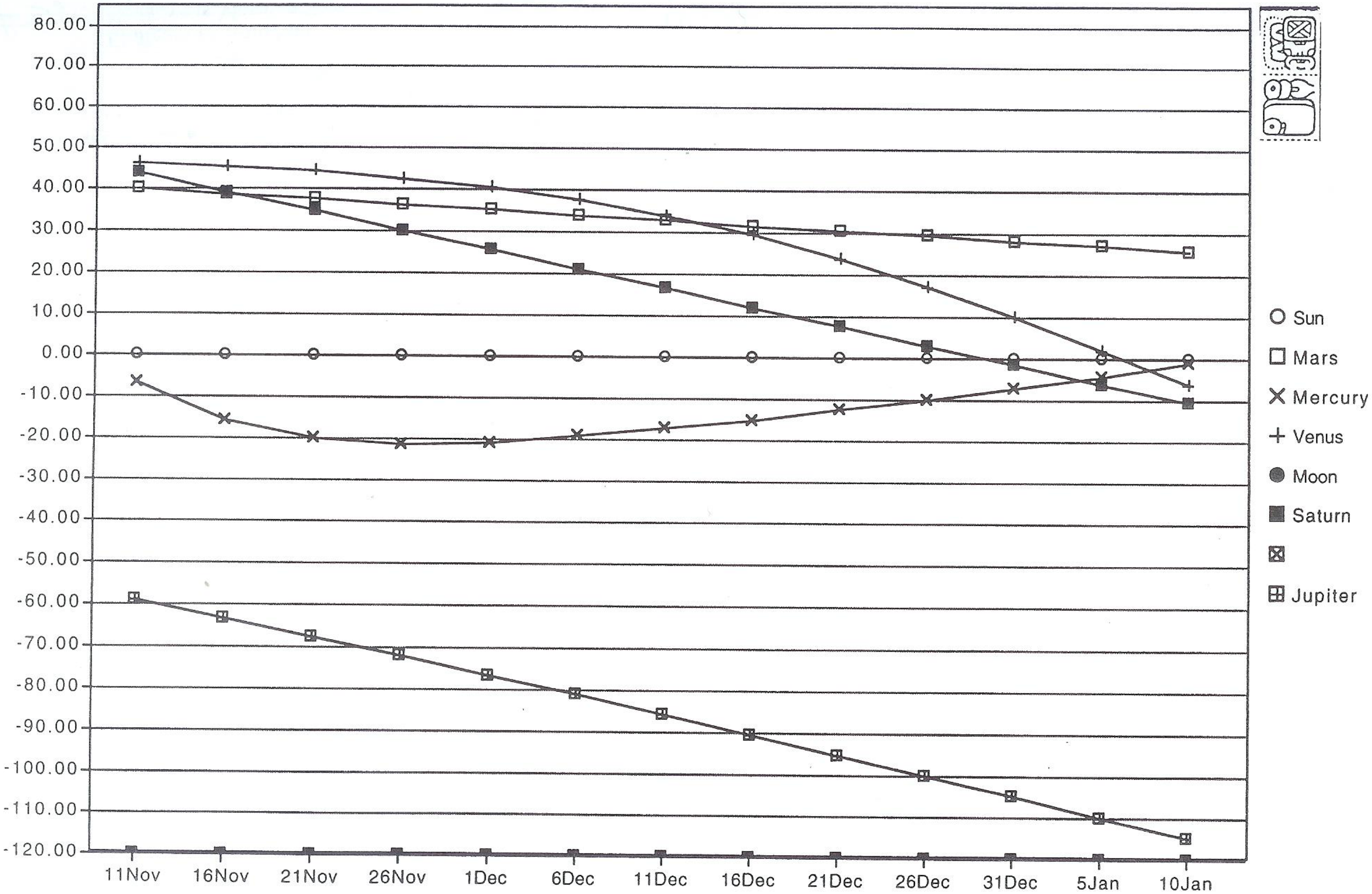


#56

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.6.17.14

Corr.Const.
584285

Gregorian	Thur 17 June 782 A.D.
Julian	13 June 782 A.D.
Mayan	9.17.11.10.2 2 Ik 0 Mol

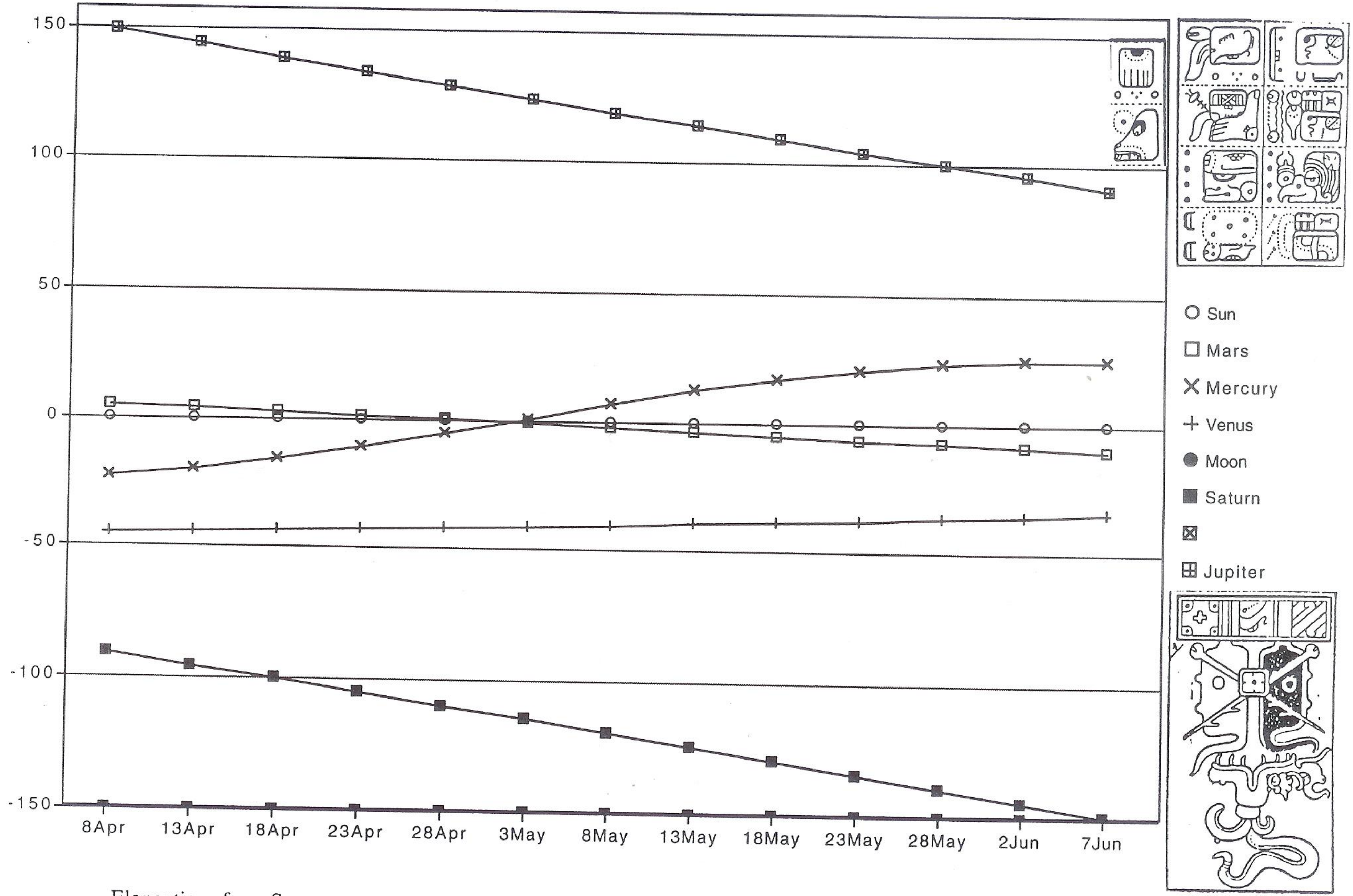


#57

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.7.8.11

Corr.Const.
584285

Gregorian Sat 11 December 782 A.D.
Julian 7 December 782 A.D.
Mayan 9.17.12.0.19 10 Cauac 17 Pax



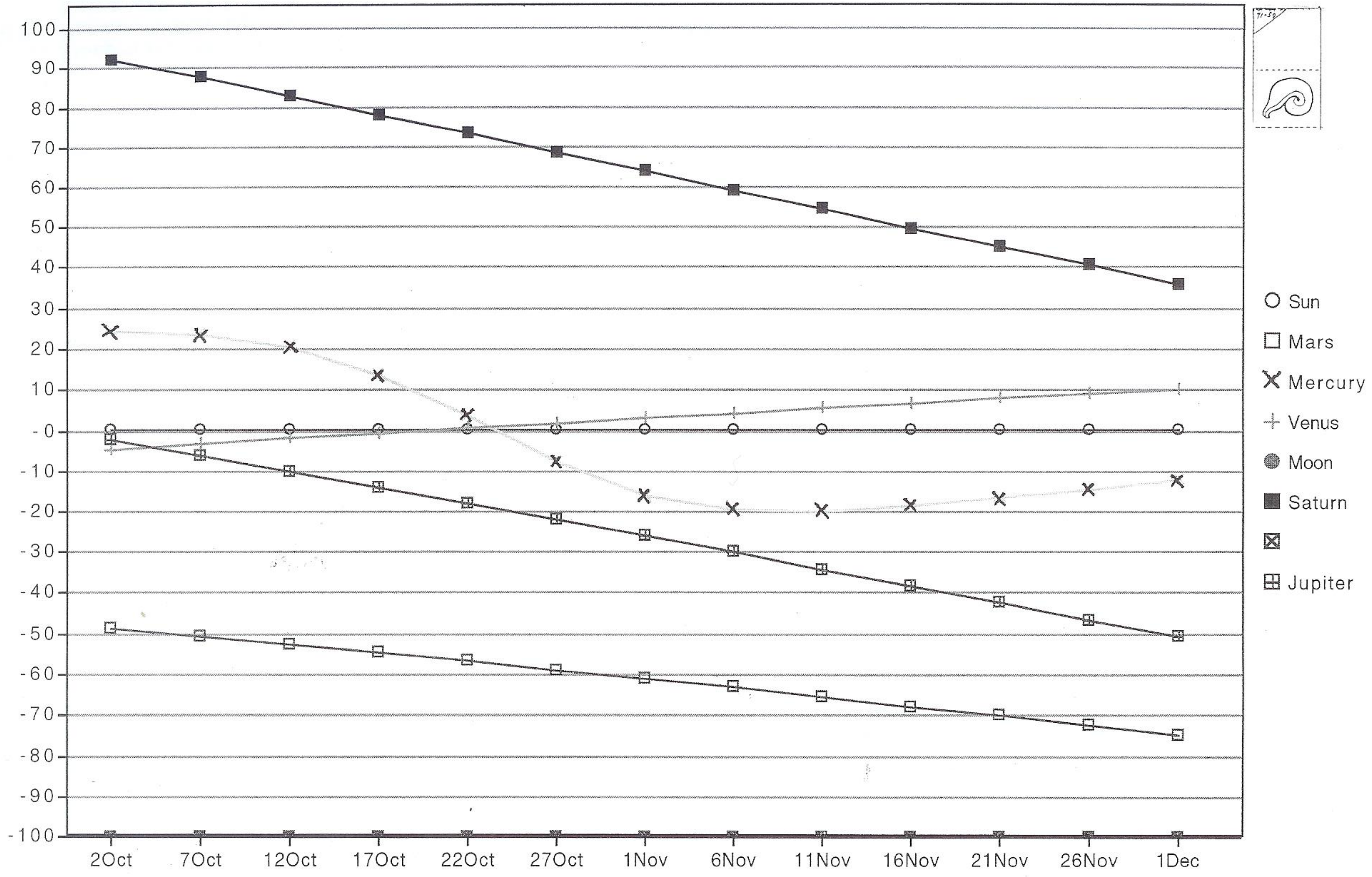
#58

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.7.15.19

Corr.Const.
584285

Gregorian
Julian
Mayan

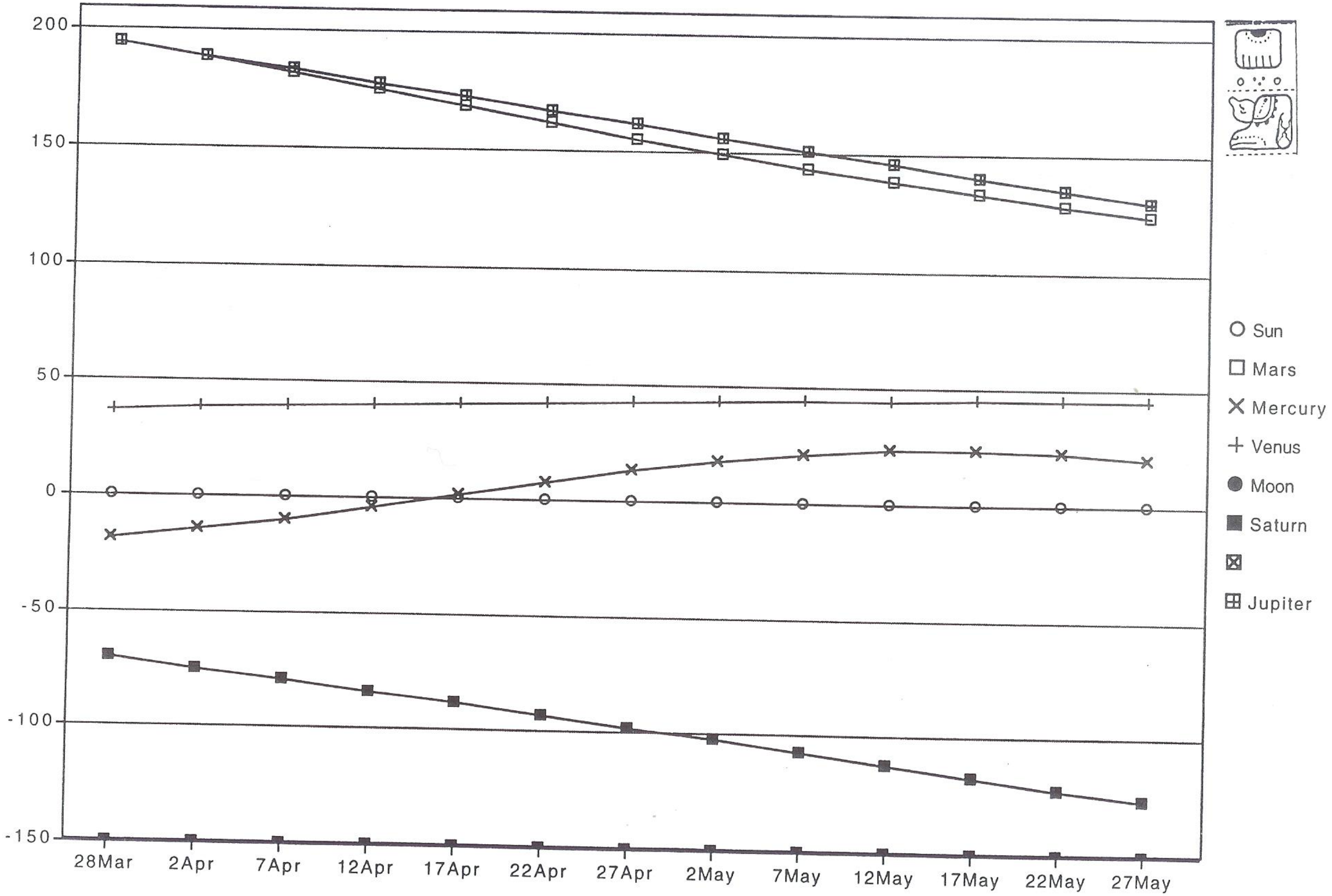
Sun 8 May 783 A.D.
4 May 783 A.D.
9.17.12.8.7 2 Manik 0 Xul



#59

Elongations from Sun.
Negative is Morning Star.
9.16.4.10.8 + 1.8.6.16

Gregorian	Tues 1 November	783 A.D.
Julian	28 October	783 A.D.
Mayan	9.17.12.17.4	10 Kan 17 Kankin
Correlation Constant		584,285

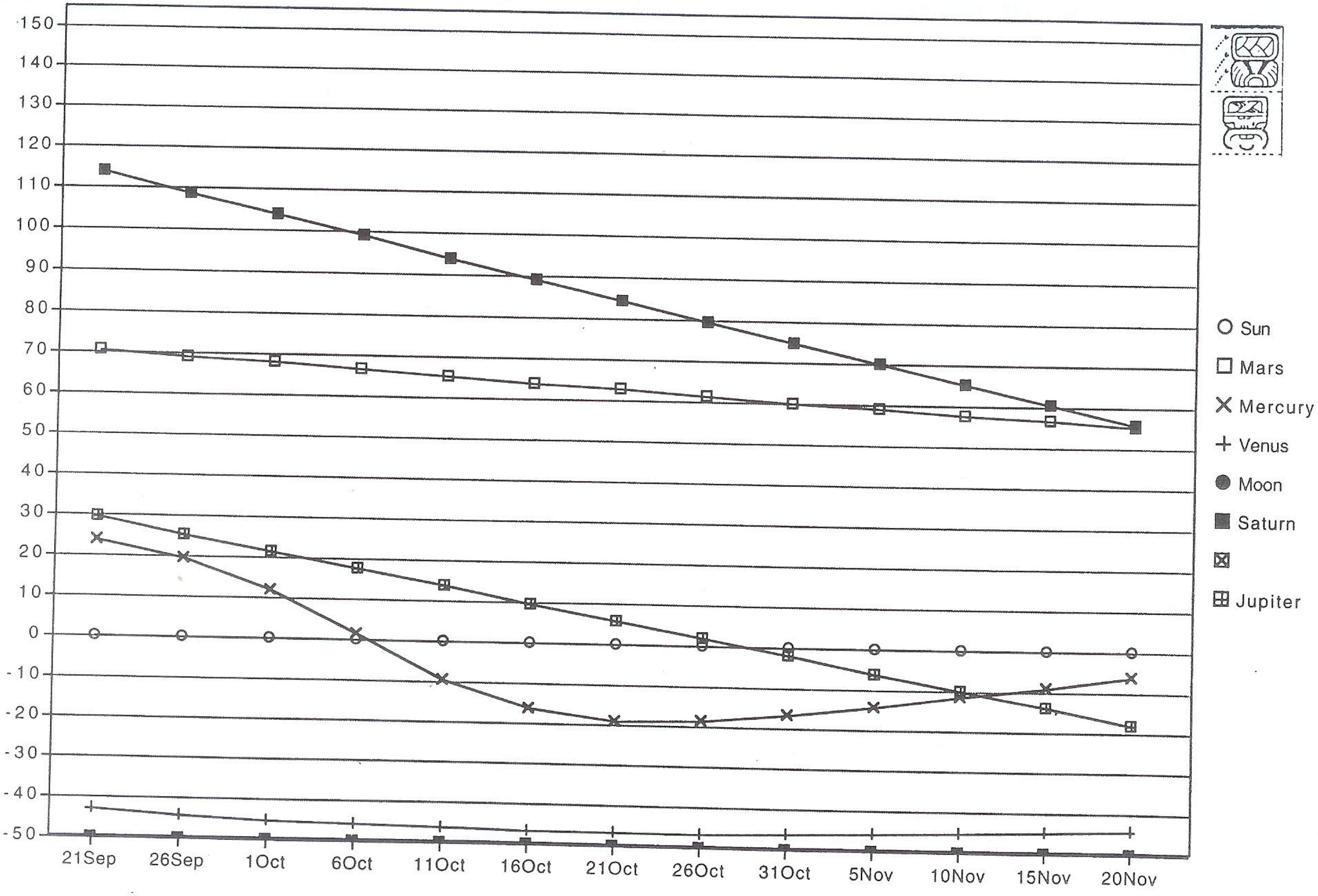


#60

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.8.15.14

Corr.Const.
584285

Gregorian	Fri 27 April	784 A.D.
Julian	23 April	784 A.D.
Mayan	9.17.13.8.2	6 Ik 10 Zec

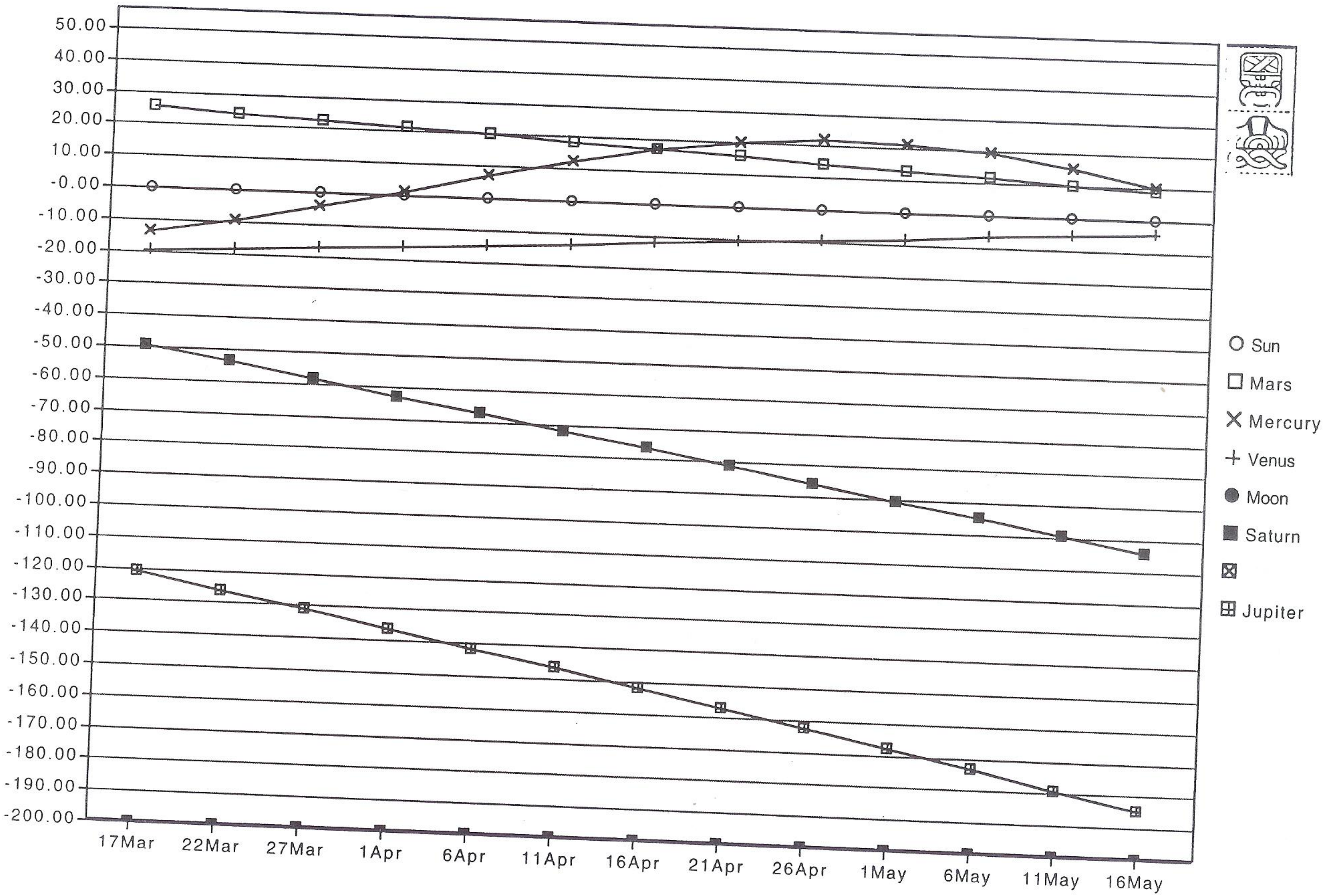


#61

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.9.6.11

Corr.Const.
584285

Gregorian Sun 21 October 784 A.D.
Julian 17 October 784 A.D.
Mayan 9.17.13.16.19 1 Cauac 7 Kankin

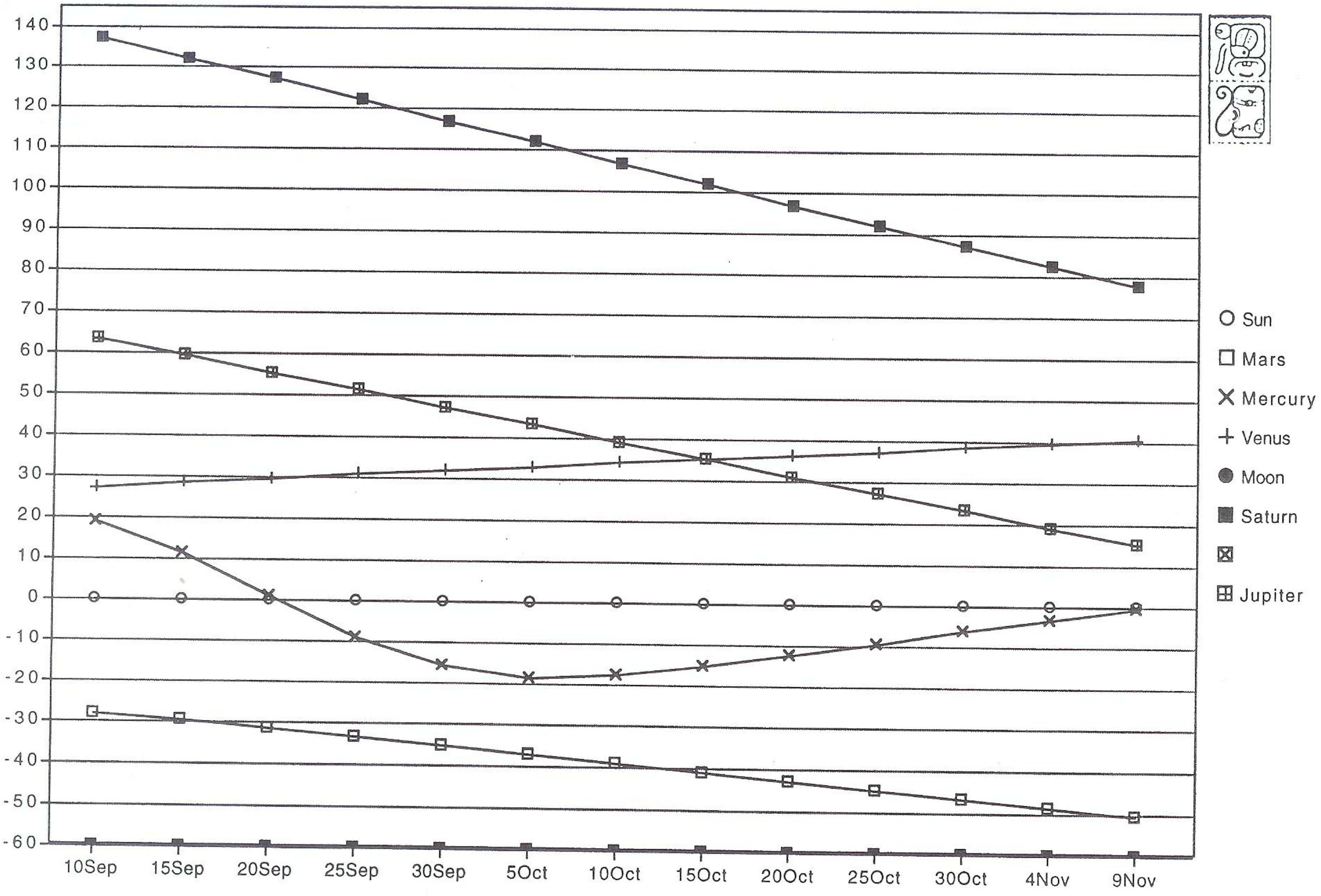


#62

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.9.15.8

Corr.Const.
584285

Gregorian	Tues 16 April	785 A.D.
Julian	12 April	785 A.D.
Mayan	9.17.14.7.16 9 Cib	19 Zotz'

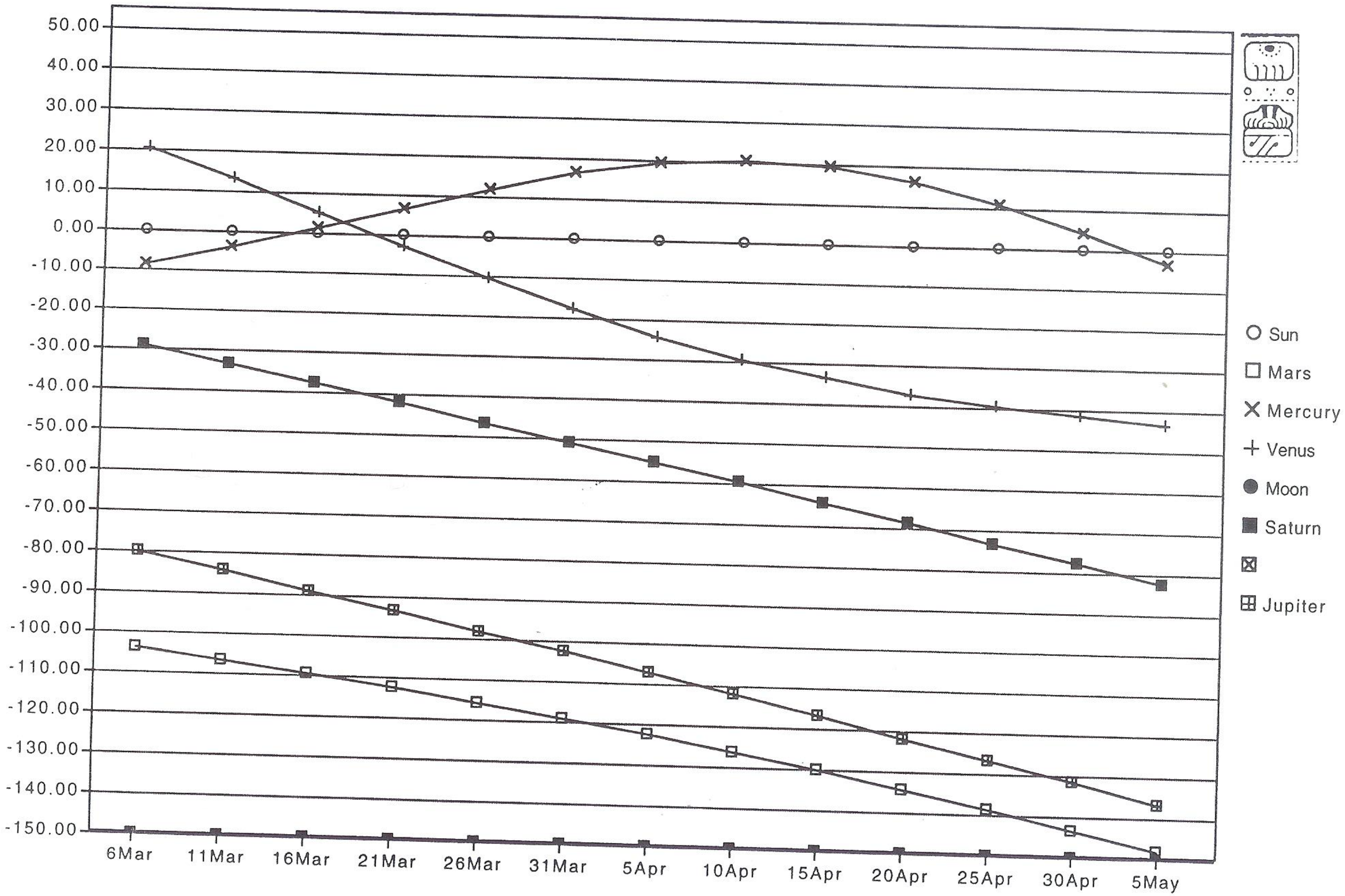


#63

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.10.6.5

Corr.Const.
584285

Gregorian Thur 10 October 785 A.D.
Julian 6 October 785 A.D.
Mayan 9.17.14.16.13 4 Ben 16 Mac

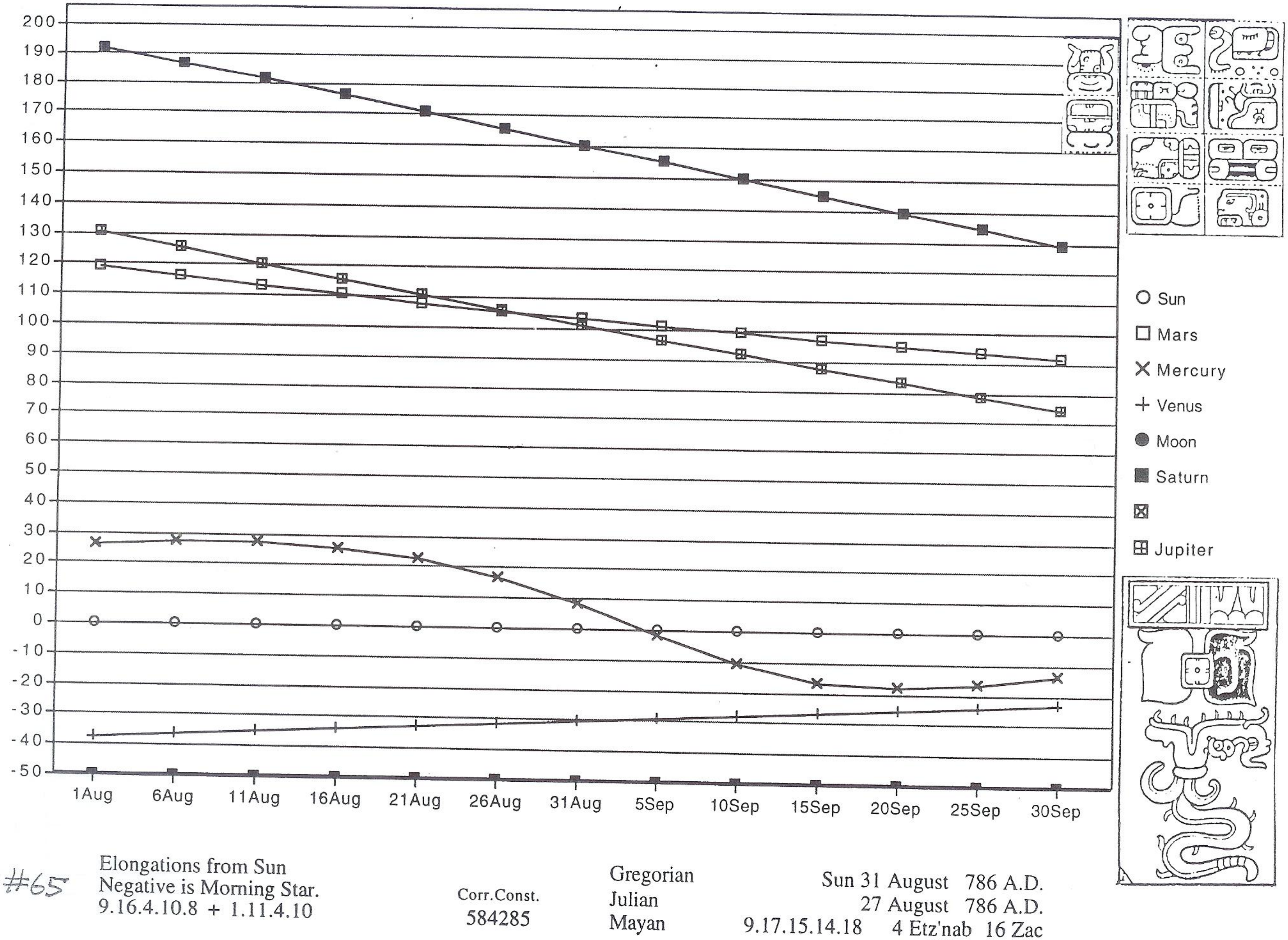


#64

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.10.15.2

Corr.Const.
584285

Gregorian Sat 5 April 786 A.D.
Julian 1 April 786 A.D.
Mayan 9.17.15.7.10 12 Oc 8 Zotz'

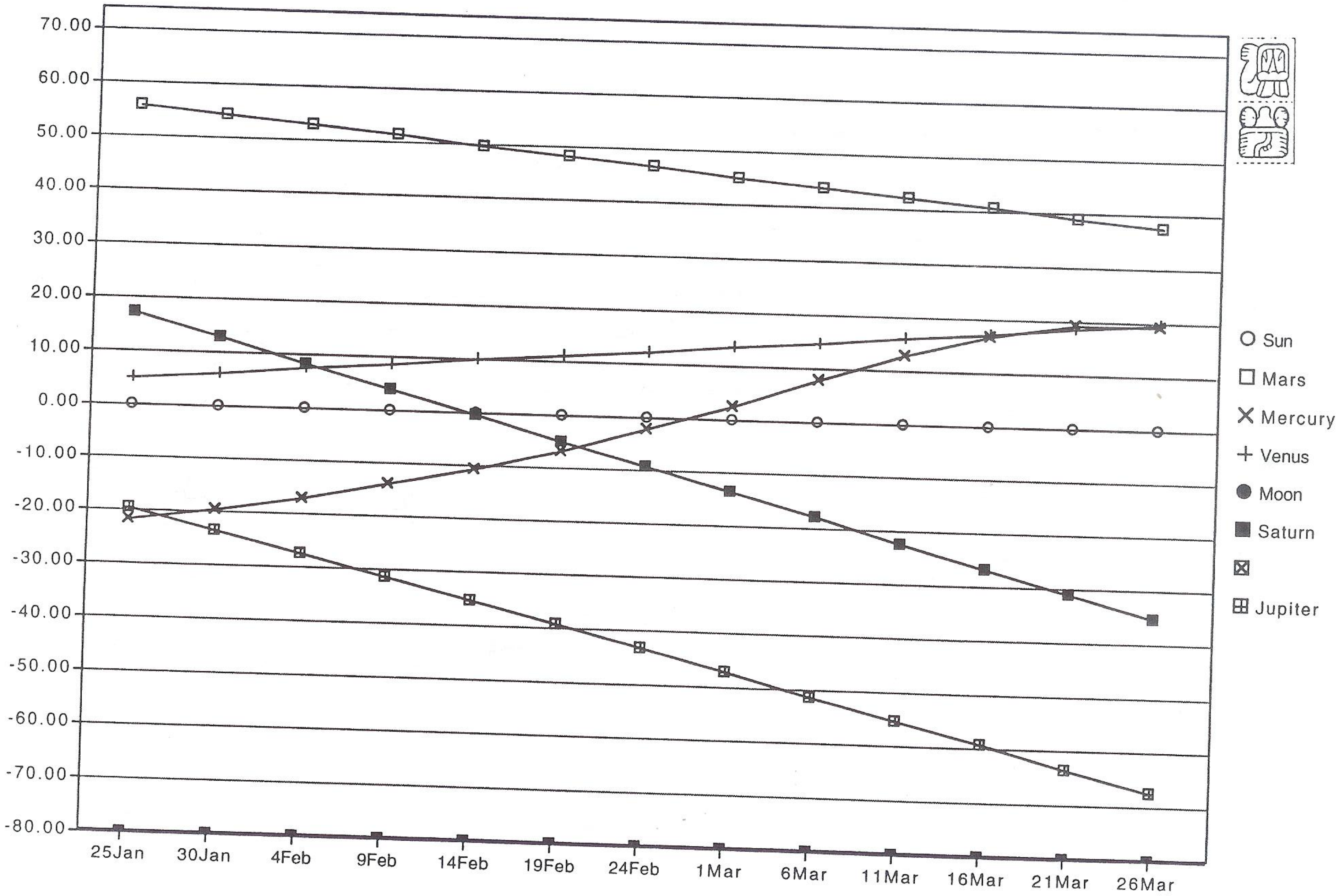


#65

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.11.4.10

Corr.Const.
584285

Gregorian Sun 31 August 786 A.D.
Julian 27 August 786 A.D.
Mayan 9.17.15.14.18 4 Etz'nab 16 Zac

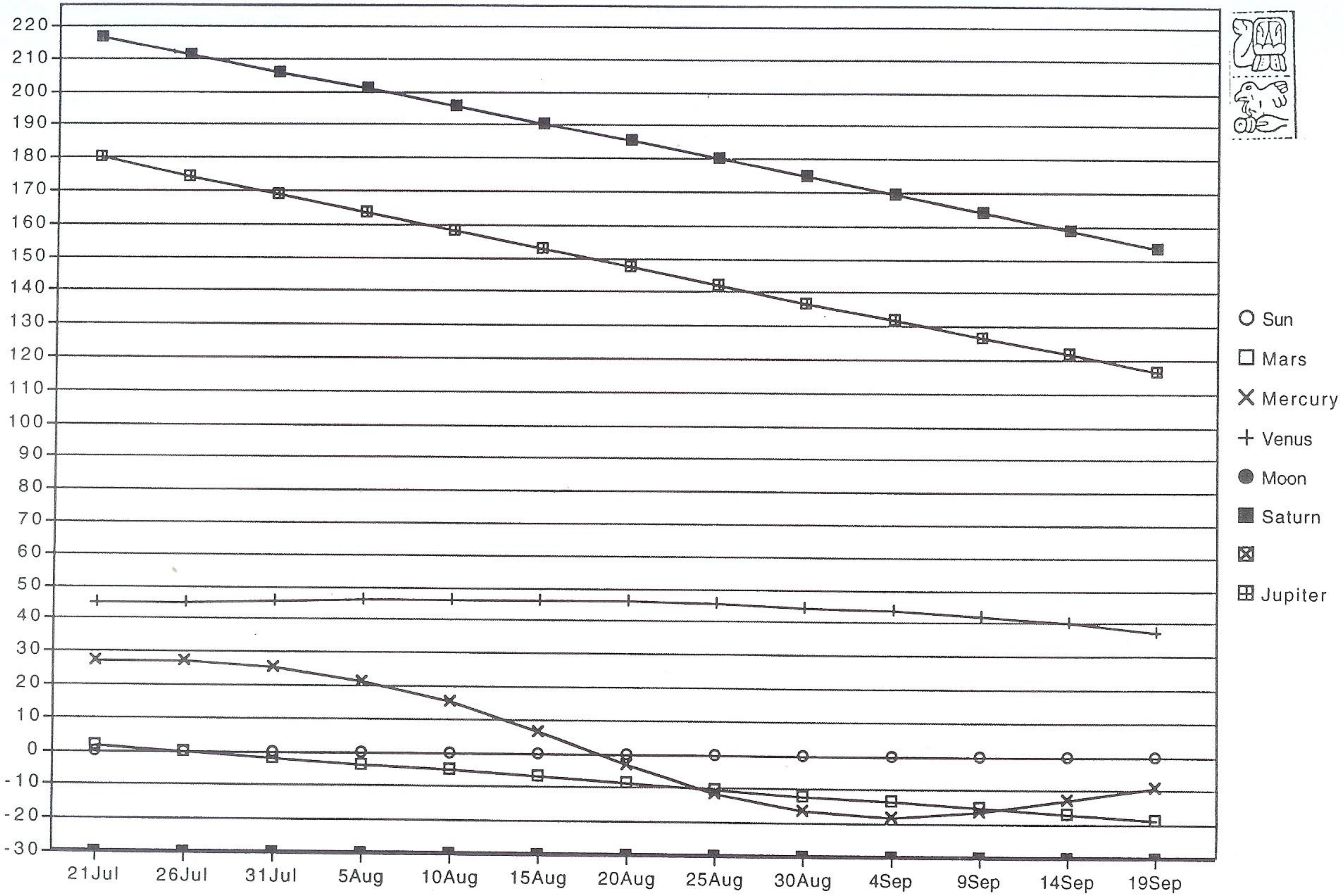


#66

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.11.13.7

Corr.Const.
584285

Gregorian	Tues 24 February 787 A.D.
Julian	20 February 787 A.D.
Mayan	9.17.16.5.15 12 Men 8 Uo

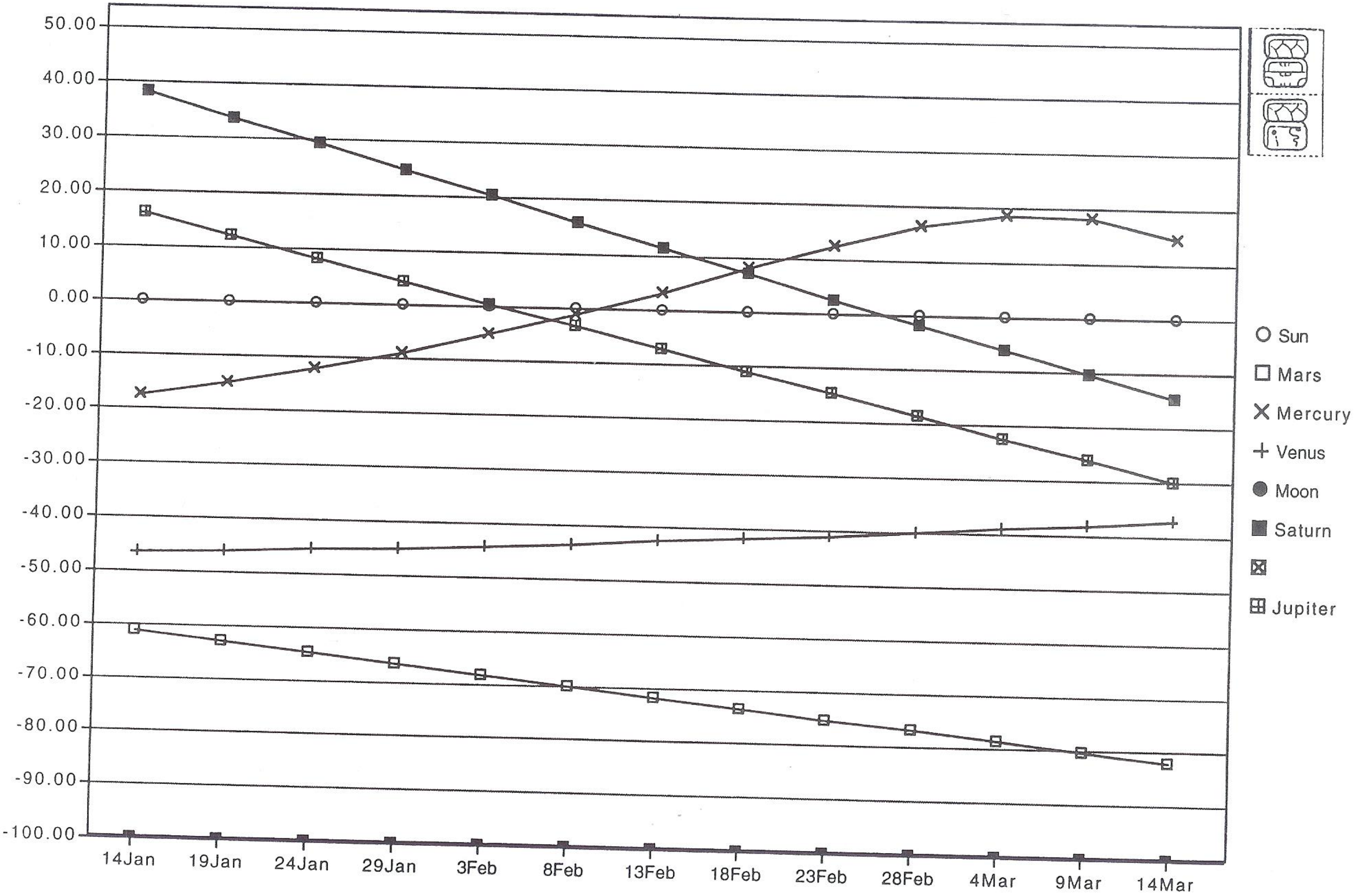


#67

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.12.4.4

Corr.Const.
584285

Gregorian	Thur 20 August 787 A.D.
Julian	16 August 787 A.D.
Mayan	9.17.16.14.12 7 Eb 5 Zac

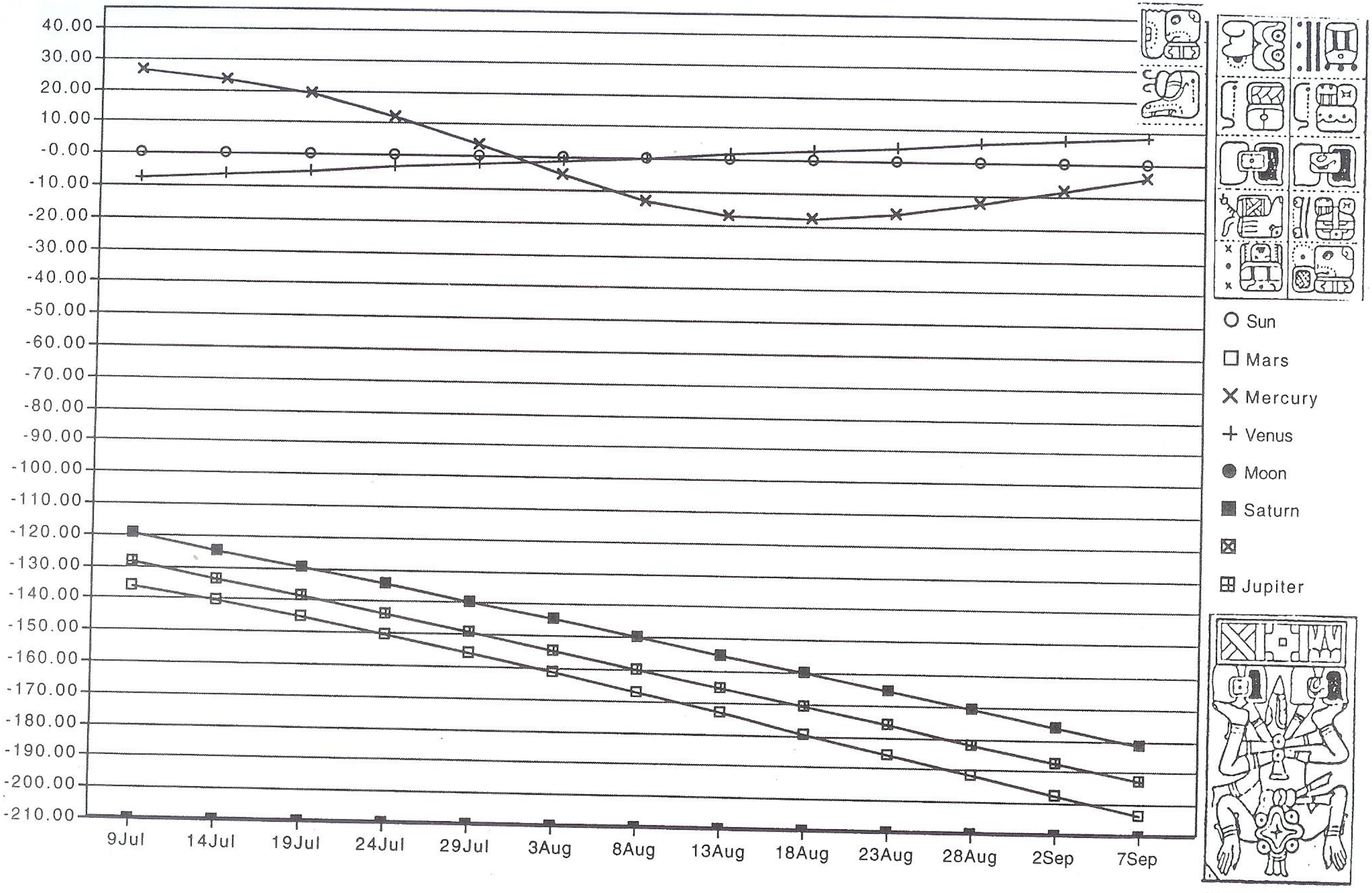


#68

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.12.13.1

Corr.Const.
584285

Gregorian	Sat 13 February	788 A.D.
Julian	9 February	788 A.D.
Mayan	9.17.17.5.9	2 Muluc 17 Pop

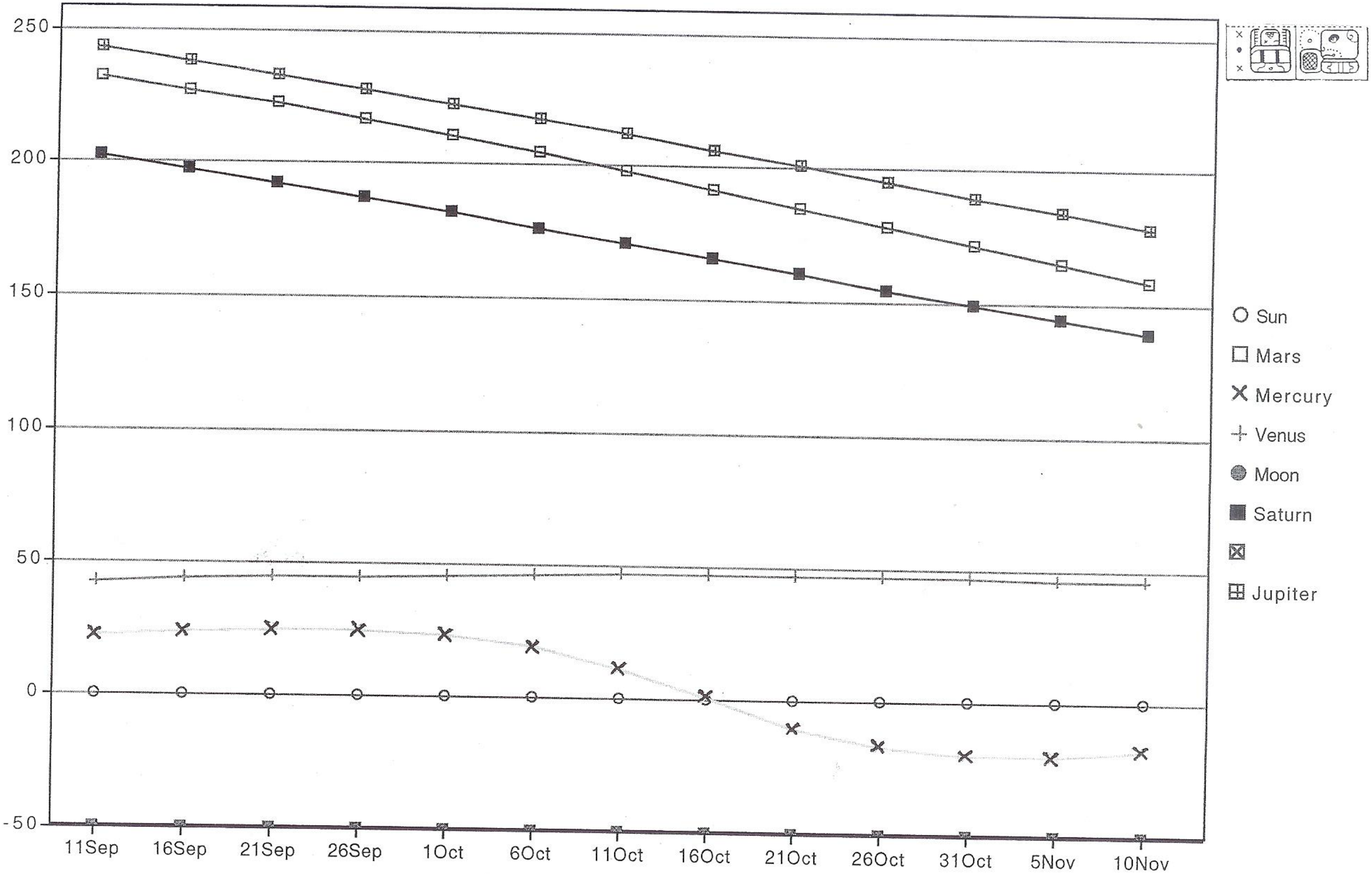


#69

Elongations from Sun
Negative is Morning Star.
9.16.4.10.8 + 1.13.3.18

Corr.Const.
584285

Gregorian	Mon 8 August 788 A.D.
Julian	4 August 788 A.D.
Mayan	9.17.17.14.6 10 Cimi 14 Yax



#
69b

Elongations from Sun. Positive is Evening Star.
Negative is Morning Star.
The next K'atun ending after the last date in the Dresden Eclipse Table (one Mars cycle 780 + 14 days later).

Gregorian	Thur 11 October 790 A.D.
Julian	7 October 790 A.D.
Mayan	9.18.0.0.0 11 Ahau 18 Mac
Correlation Constant	584,285

Appendix B.

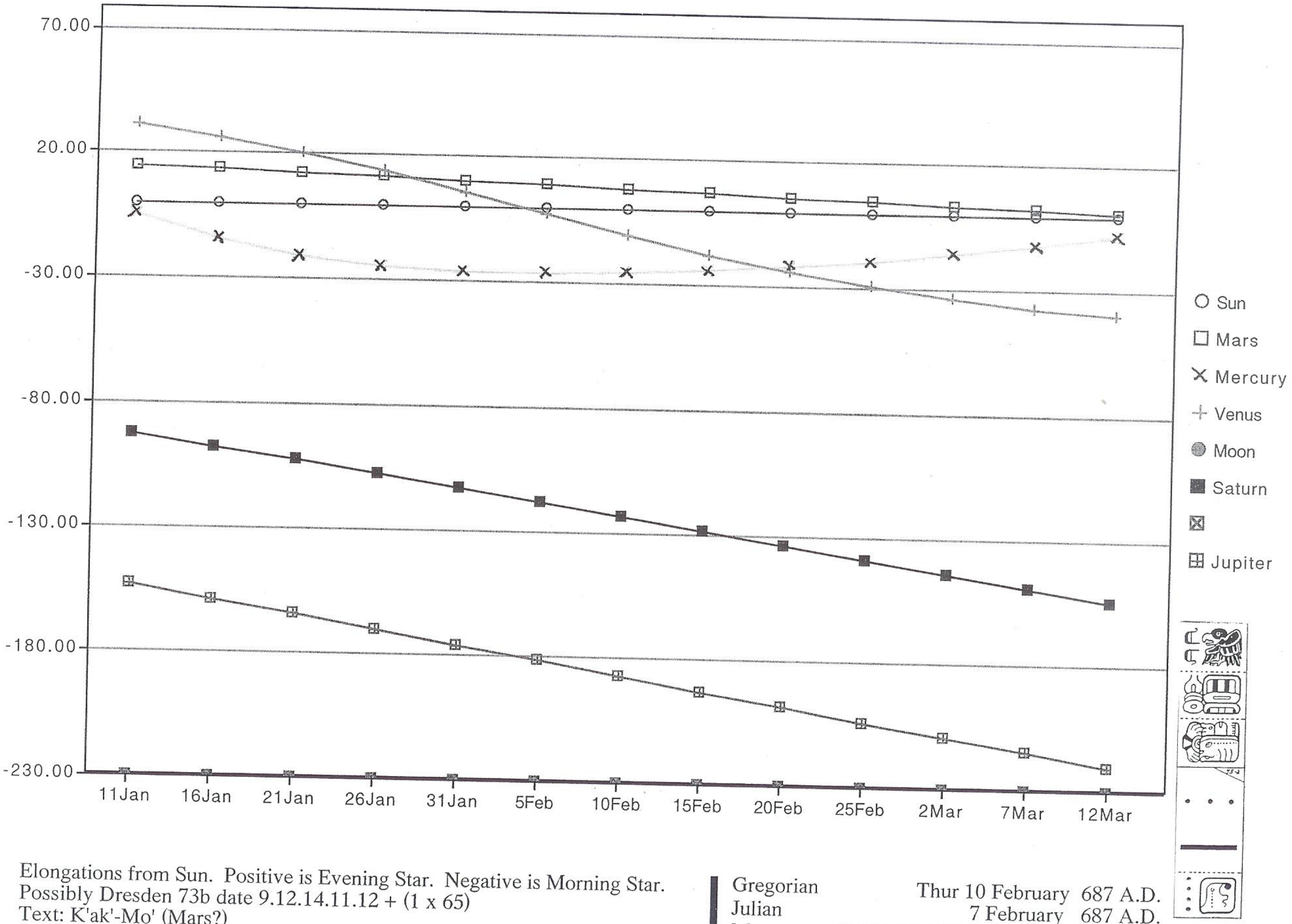
The 28 Stations of the Dresden Codex pp.73b-71b, 73c-71c

Starting the Table at

9.12.14.11.12 4 Eb 10 Muwaan 686 December 4 (Julian)

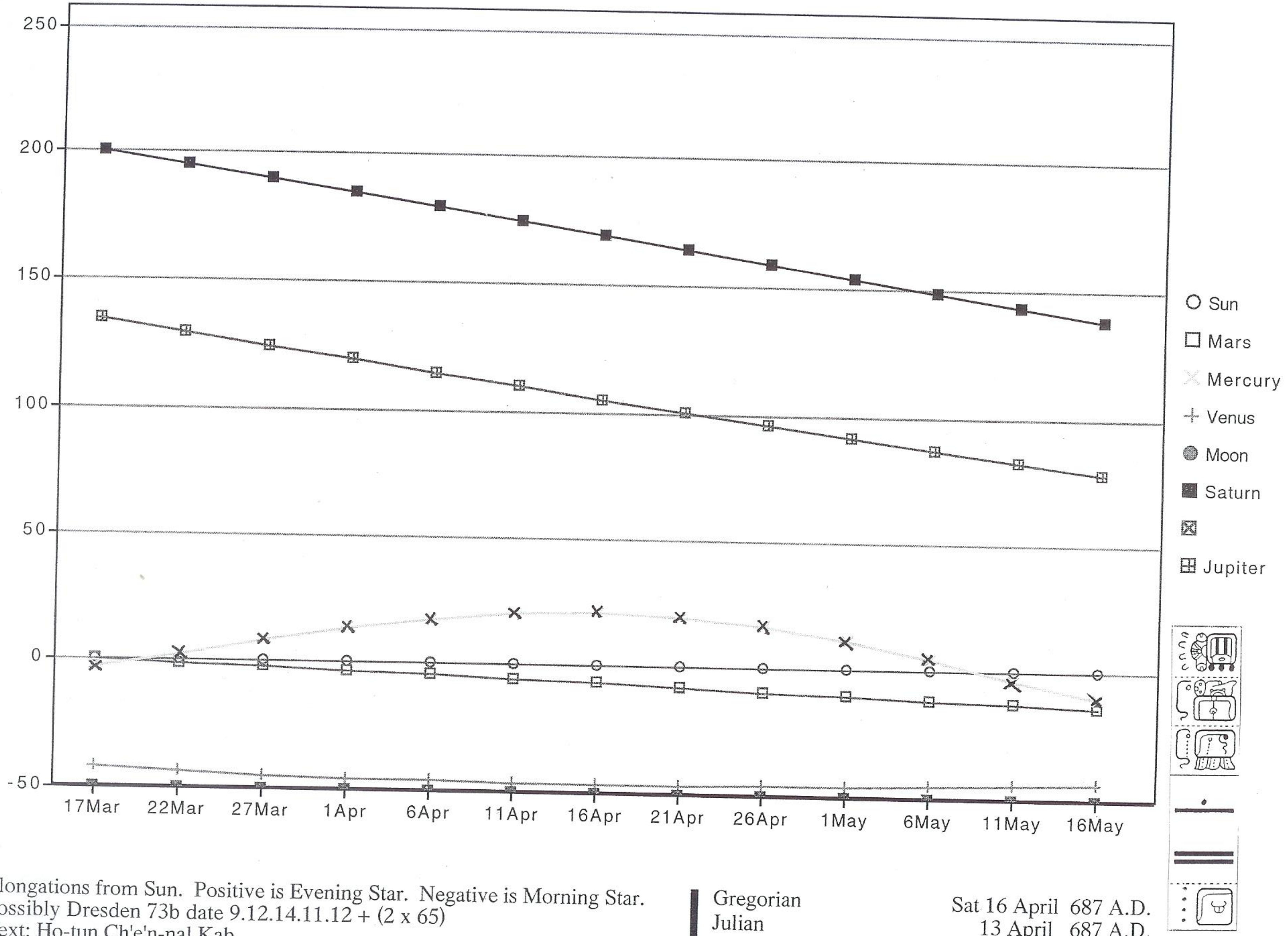
The 4 (Eb) and the 10 Muwaan are stated in the preface, the Eb implied by the pairing of 4 Eb with 9 Ix and the otherwise unaccounted-for "4" attached to a 9 Ix. The 10 Muwaan is compatible only with an Eb day, not with any of the other Tzolk'in days explicit or implied. The long count is locked if the text for the second station, 130 days (6.10) later, does indeed refer to a Hotun. In this case it would be 9.12.15.0.0. The text references to planets work better for this starting date than for any other 4 Eb 10 Muwaan which has so far been compared with it.

The starting date used here is, so far as this author is aware, novel.



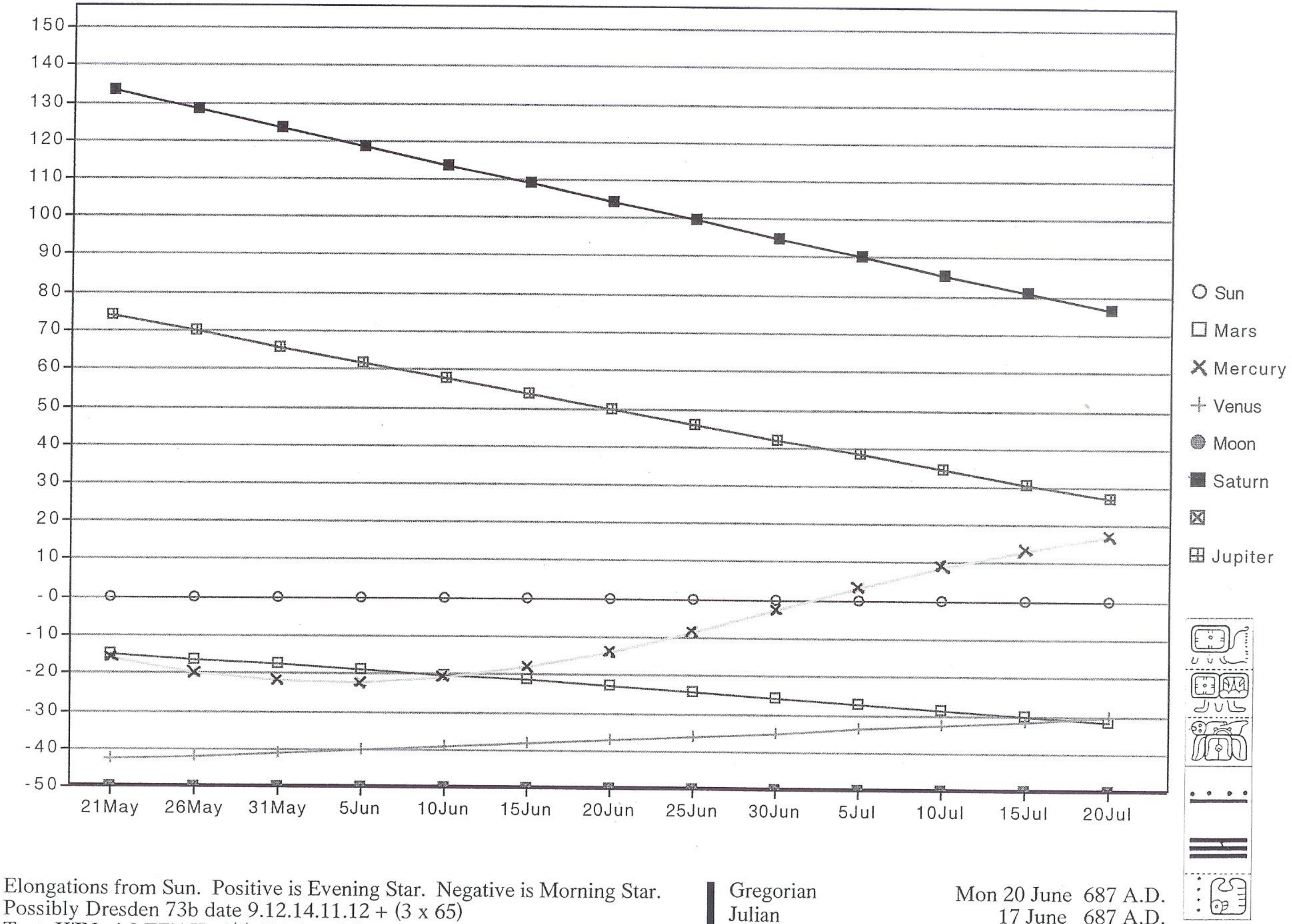
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73b date 9.12.14.11.12 + (1 x 65)
Text: K'ak'-Mo' (Mars?)

Gregorian		Thur 10 February	687 A.D.
Julian		7 February	687 A.D.
Mayan	9.12.14.14.17	4 Caban	15 Cumku
Correlation Constant			584,285



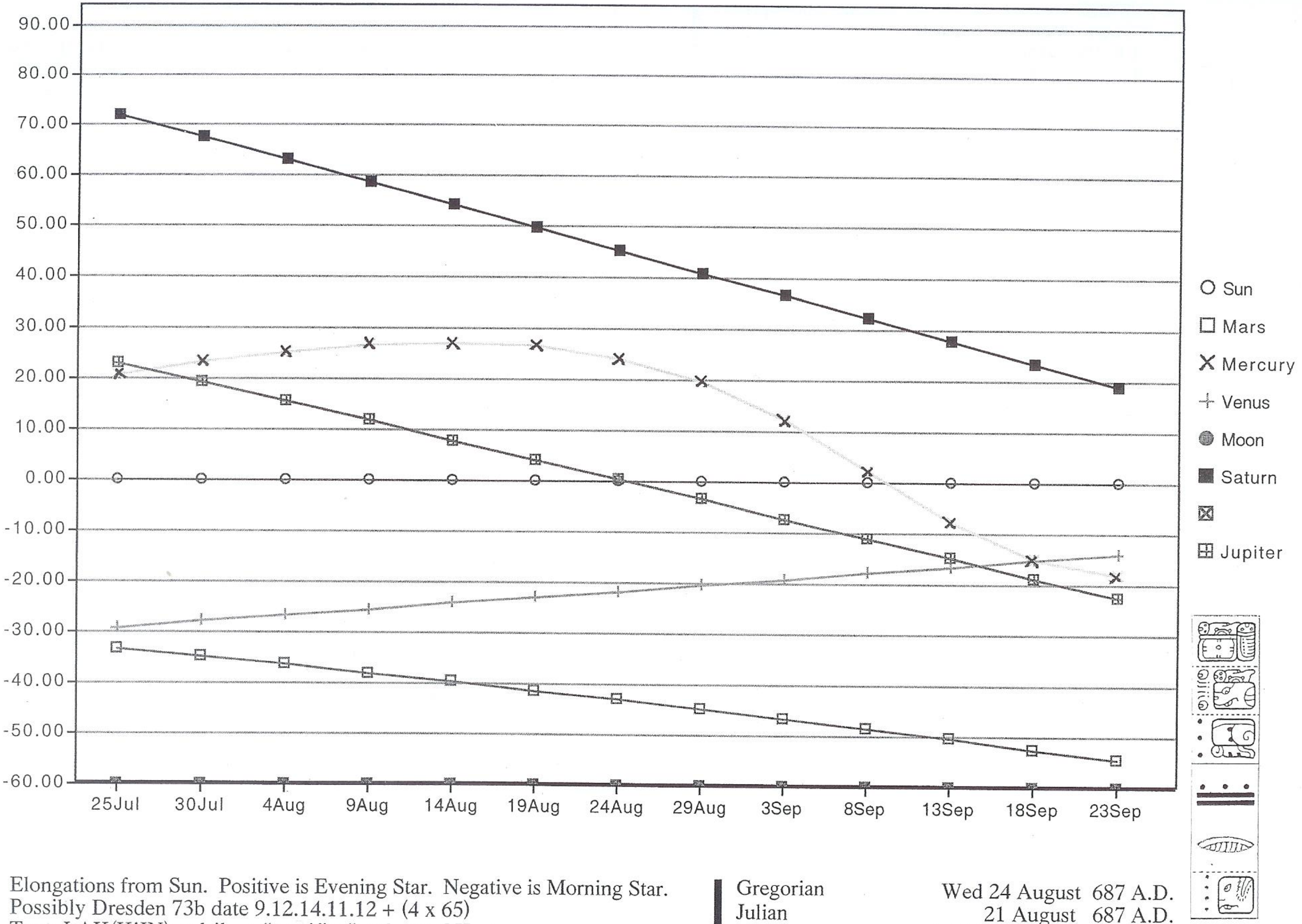
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73b date 9.12.14.11.12 + (2 x 65)
Text: Ho-tun Ch'e'n-nal Kab

Gregorian	Sat 16 April 687 A.D.
Julian	13 April 687 A.D.
Mayan	9.12.15.0.2 4 Ik 15 Zip
Correlation Constant	584,285



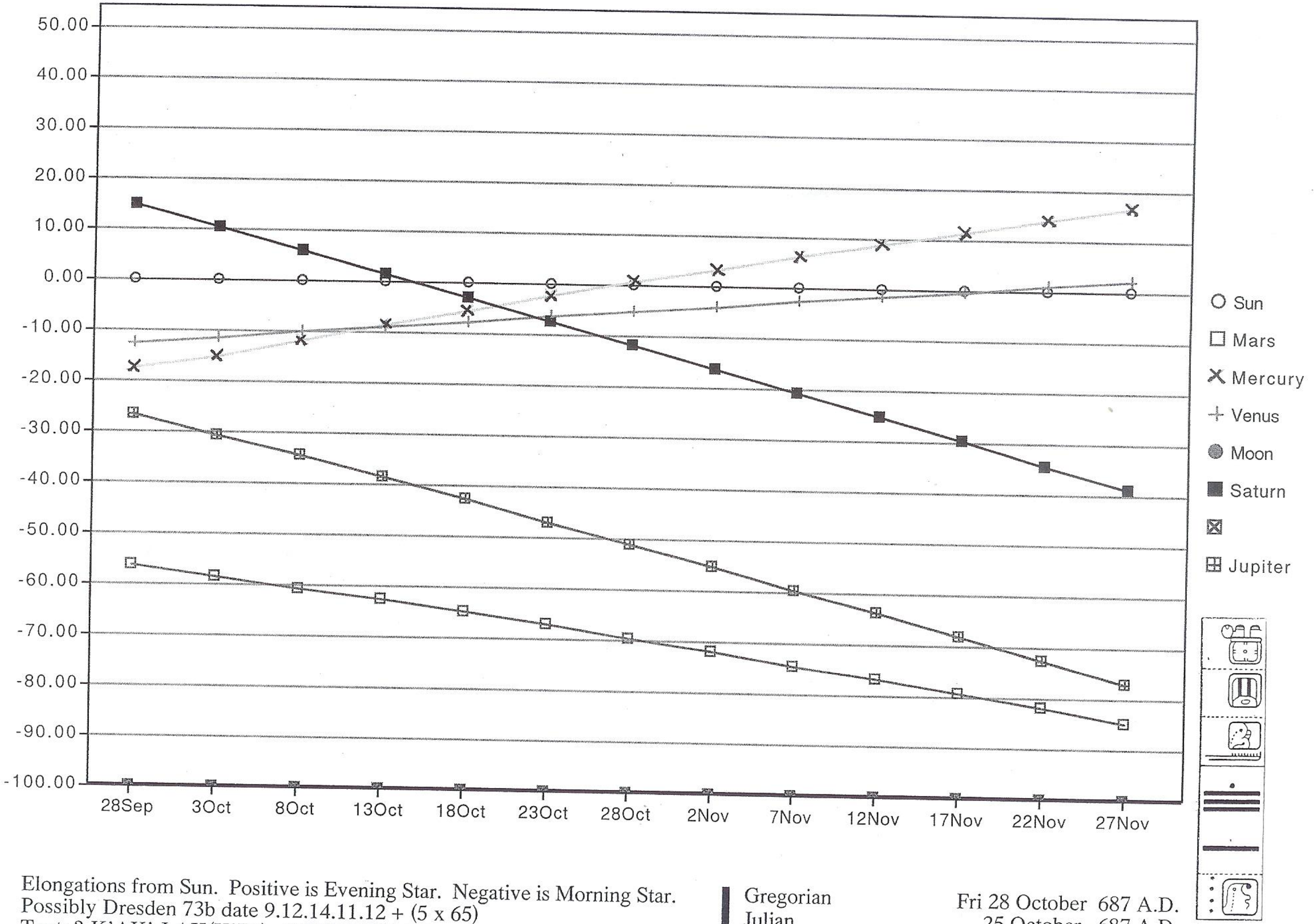
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73b date 9.12.14.11.12 + (3 x 65)
Text: K'IN-ni-? TZ'AK-aj(?) Ch'e'n-nal ?

Gregorian		Mon 20 June	687 A.D.
Julian		17 June	687 A.D.
Mayan	9.12.15.3.7	4 Manik	0 Yaxkin
Correlation Constant			584,285



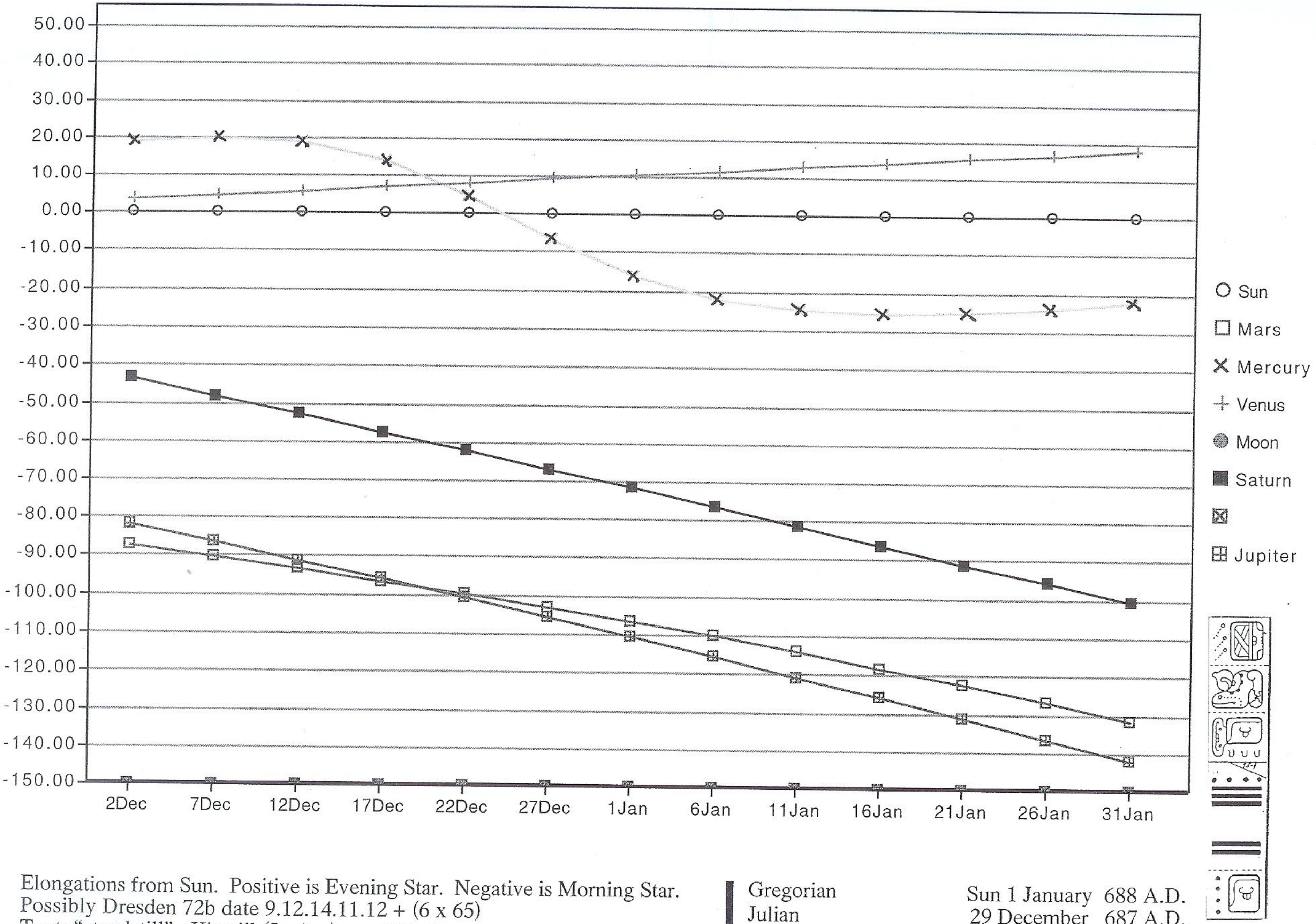
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73b date 9.12.14.11.12 + (4 x 65)
Text: LAK(K'IN)-nal-il u-"sacrifice"-nal ox-OK-wa

Gregorian	Wed 24 August 687 A.D.
Julian	21 August 687 A.D.
Mayan	9.12.15.6.12 4 Eb 5 Yax
Correlation Constant	584,285



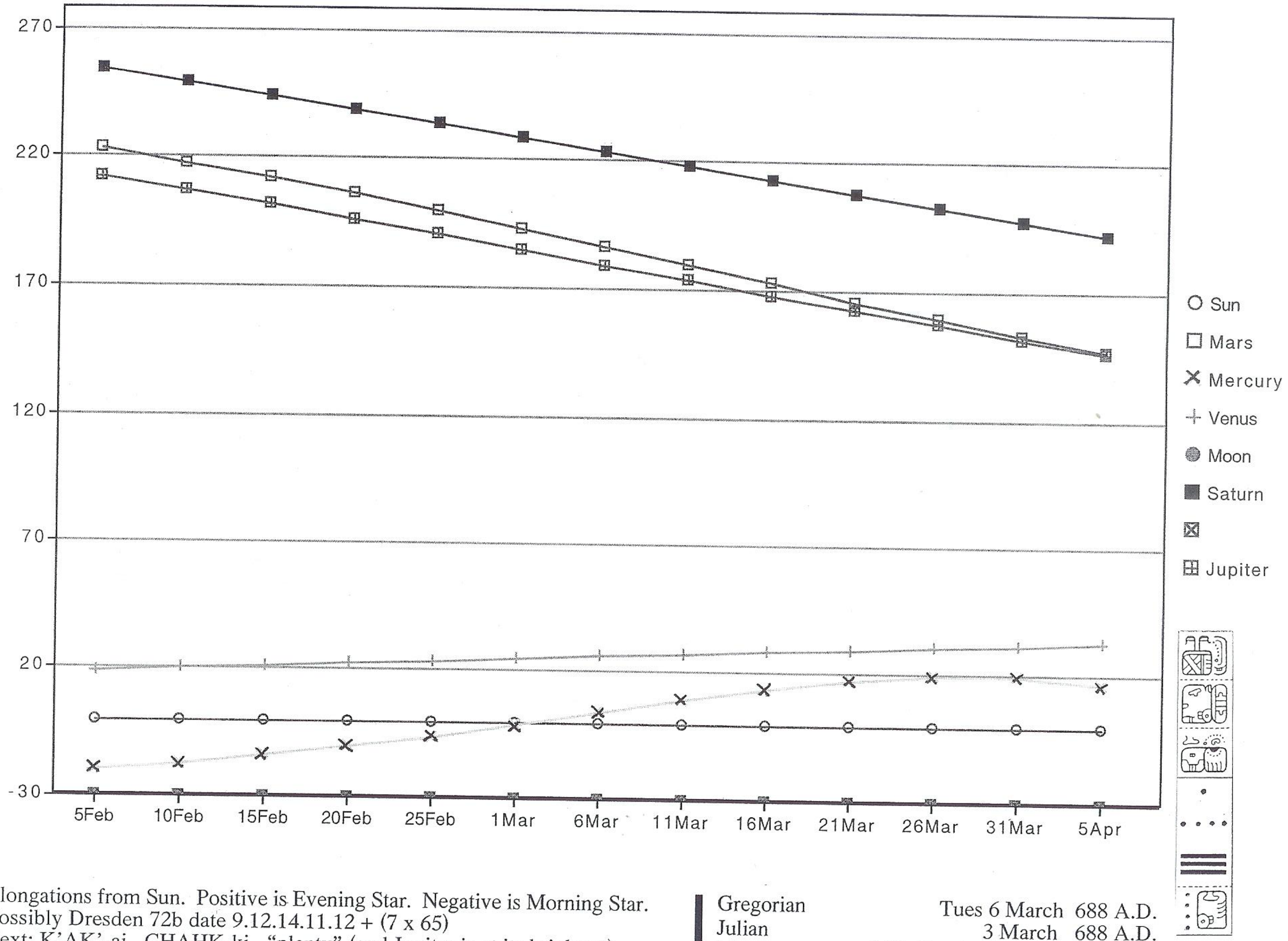
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73b date 9.12.14.11.12 + (5 x 65)
Text: ?-K'AK'-LAK(K'IN) ?-TUUN/HAAB ...-mu-ka

Gregorian	Fri 28 October 687 A.D.
Julian	25 October 687 A.D.
Mayan	9.12.15.9.17 4 Caban 10 Mac
Correlation Constant	584,285



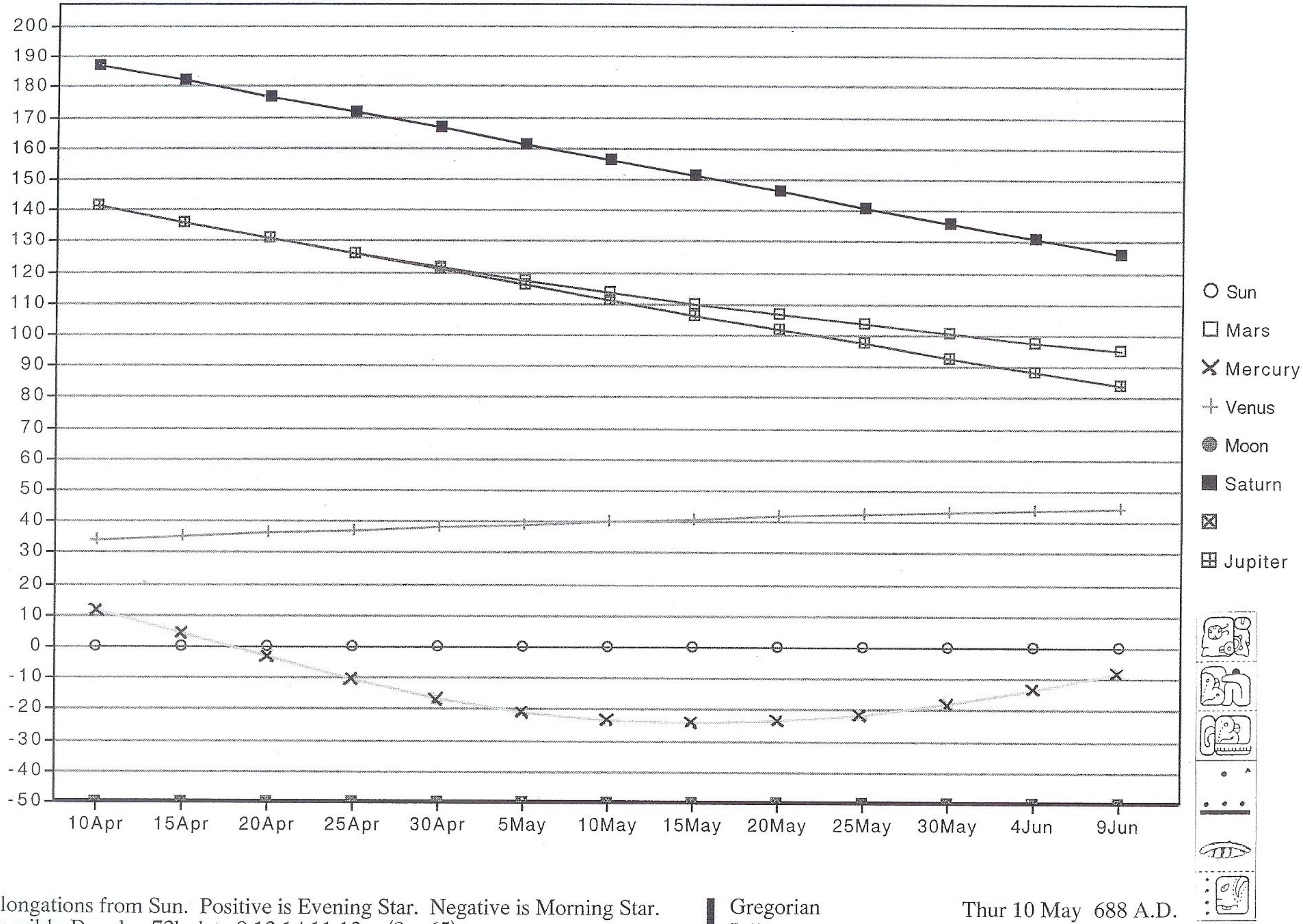
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (6 x 65)
Text: "standstill" K'awiil (Jupiter) na-IK'-aj

Gregorian	Sun 1 January 688 A.D.
Julian	29 December 687 A.D.
Mayan	9.12.15.13.2 4 Ik 15 Pax
Correlation Constant	584,285



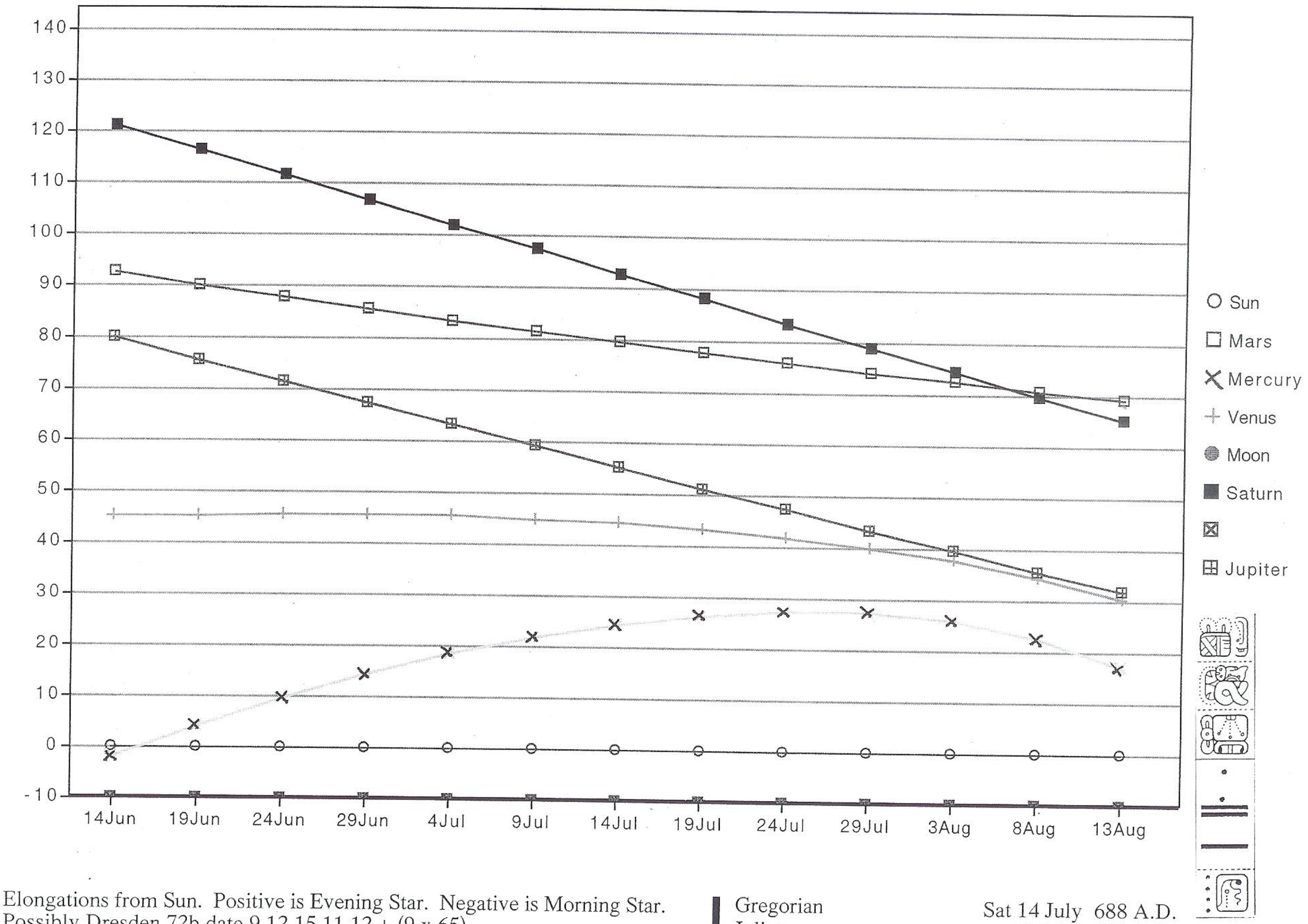
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (7 x 65)
Text: K'AK'-aj CHAHK-ki "plenty" (and Jupiter is at its brightest)

Gregorian		Tues 6 March 688 A.D.
Julian		3 March 688 A.D.
Mayan	9.12.15.16.7	4 Manik 15 Pop
Correlation Constant		584,285



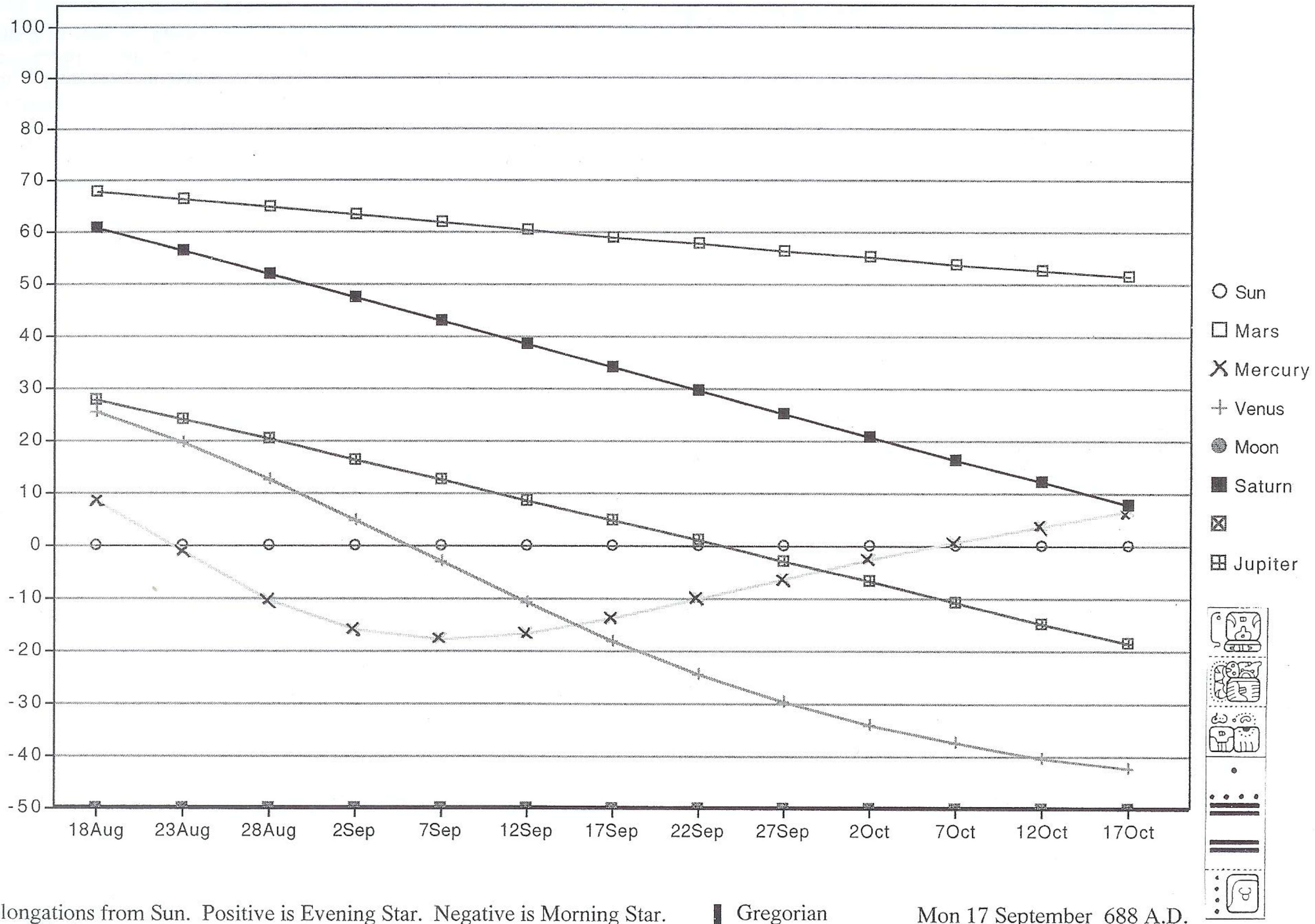
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (8 x 65)
Text: ?MUK'(in)-nal mu-"dim" mu-MUK-ka

Gregorian		Thur 10 May 688 A.D.
Julian		7 May 688 A.D.
Mayan	9.12.16.1.12	4 Eb 0 Zec
Correlation Constant		584,285



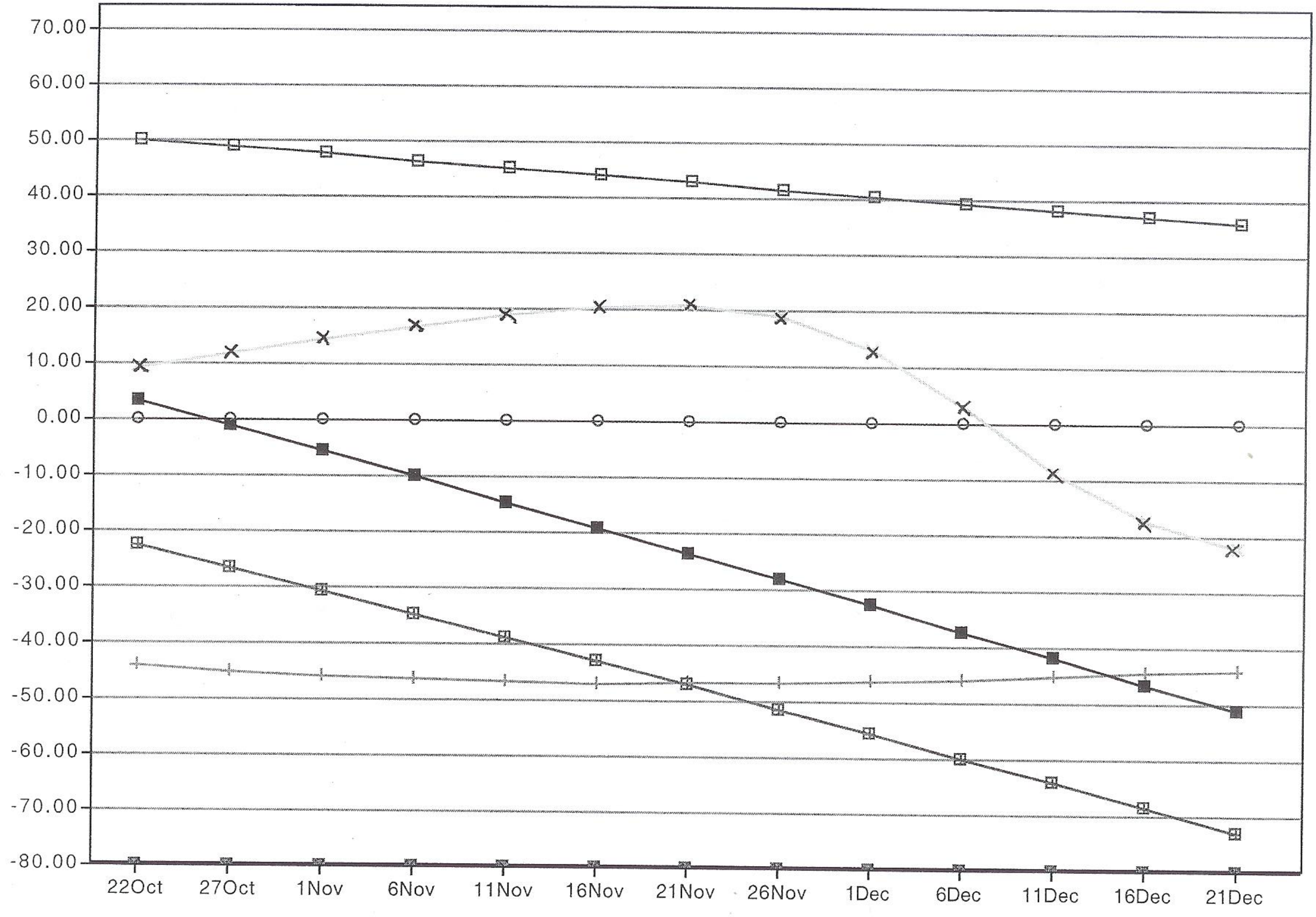
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.15.11.12 + (9 x 65)
Text: toh-aj itz-TZ'AK-nal yu-tzi-il
Venus near maximum elongation, but all planets prominent as evening stars.

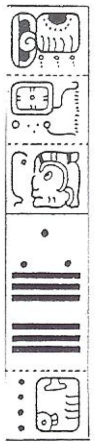
Gregorian		Sat 14 July 688 A.D.
Julian		11 July 688 A.D.
Mayan	9.12.16.4.17	4 Caban 5 Mol
Correlation Constant		584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (10 x 65)
Text: ?-WINIK-ki itz-su-nal "plenty"

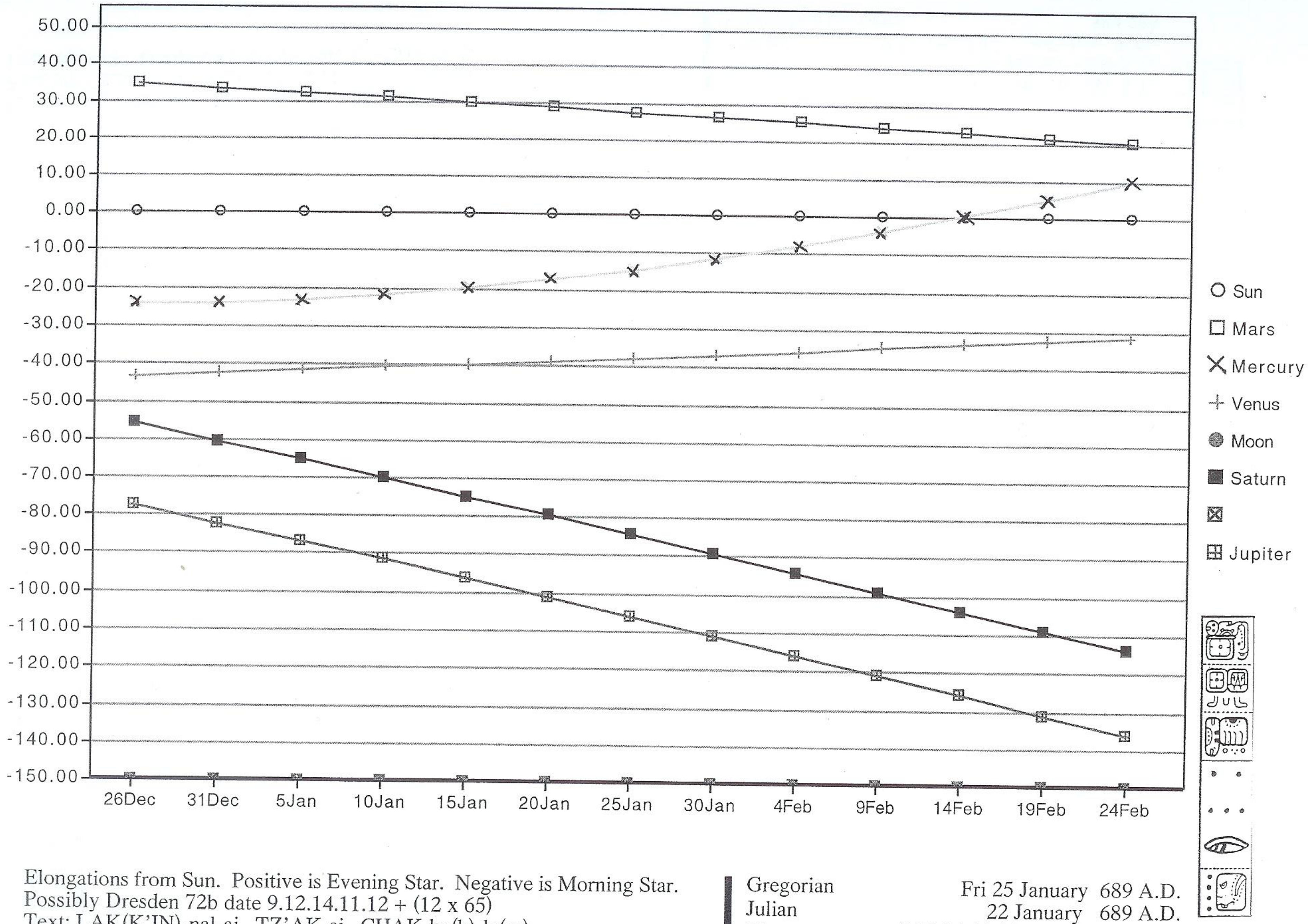
Gregorian	Mon 17 September 688 A.D.
Julian	14 September 688 A.D.
Mayan	9.12.16.8.2 4 Ik 10 Zac
Correlation Constant	584,285





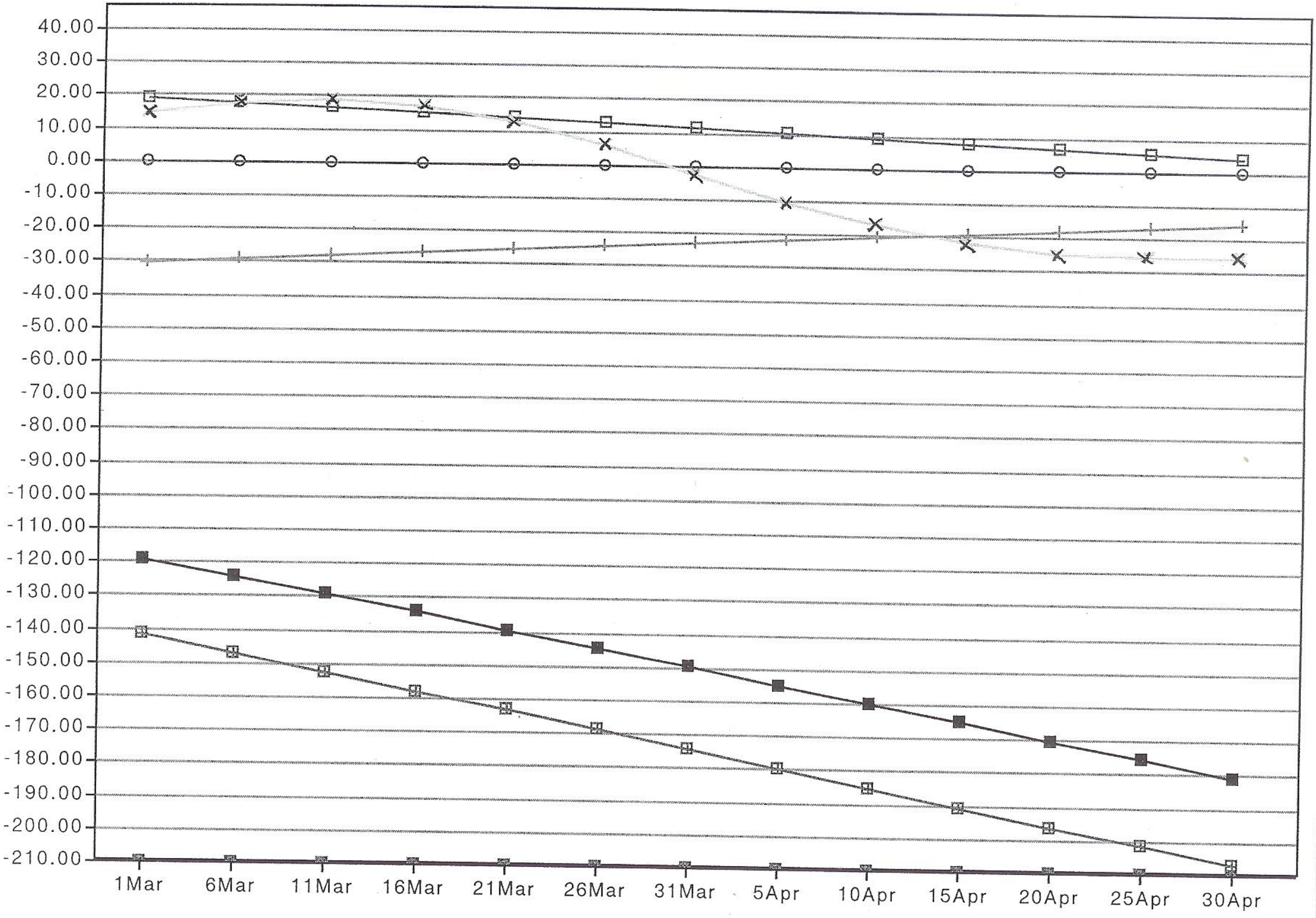
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (11 x 65)
Text: ta-ba(h)-la(m) K'IN-ni-la ?-MaizeGod
(Venus is in conj. w/ Jupiter)

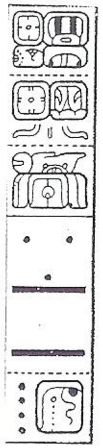
Gregorian		Wed 21 November	688 A.D.
Julian		18 November	688 A.D.
Mayan	9.12.16.11.7	4 Manik	15 Kankin
Correlation Constant			584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72b date 9.12.14.11.12 + (12 x 65)
Text: LAK(K'IN)-nal-aj TZ'AK-aj CHAK-ba(h)-la(m)
(Mercury is invisible)

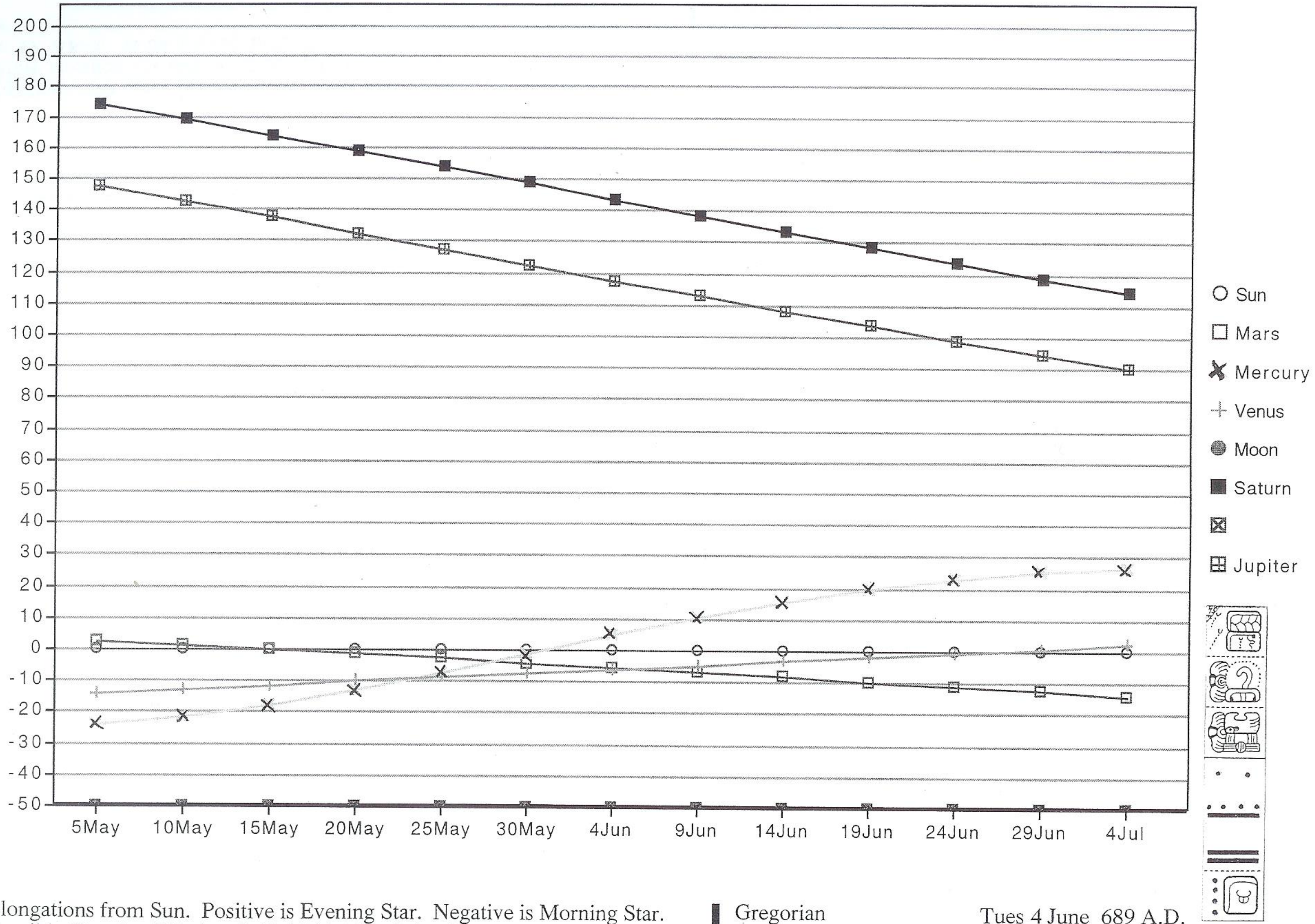
Gregorian	Fri 25 January		689 A.D.
Julian	22 January		689 A.D.
Mayan	9.12.16.14.12	4 Eb	0 Cumku
Correlation Constant			584,285





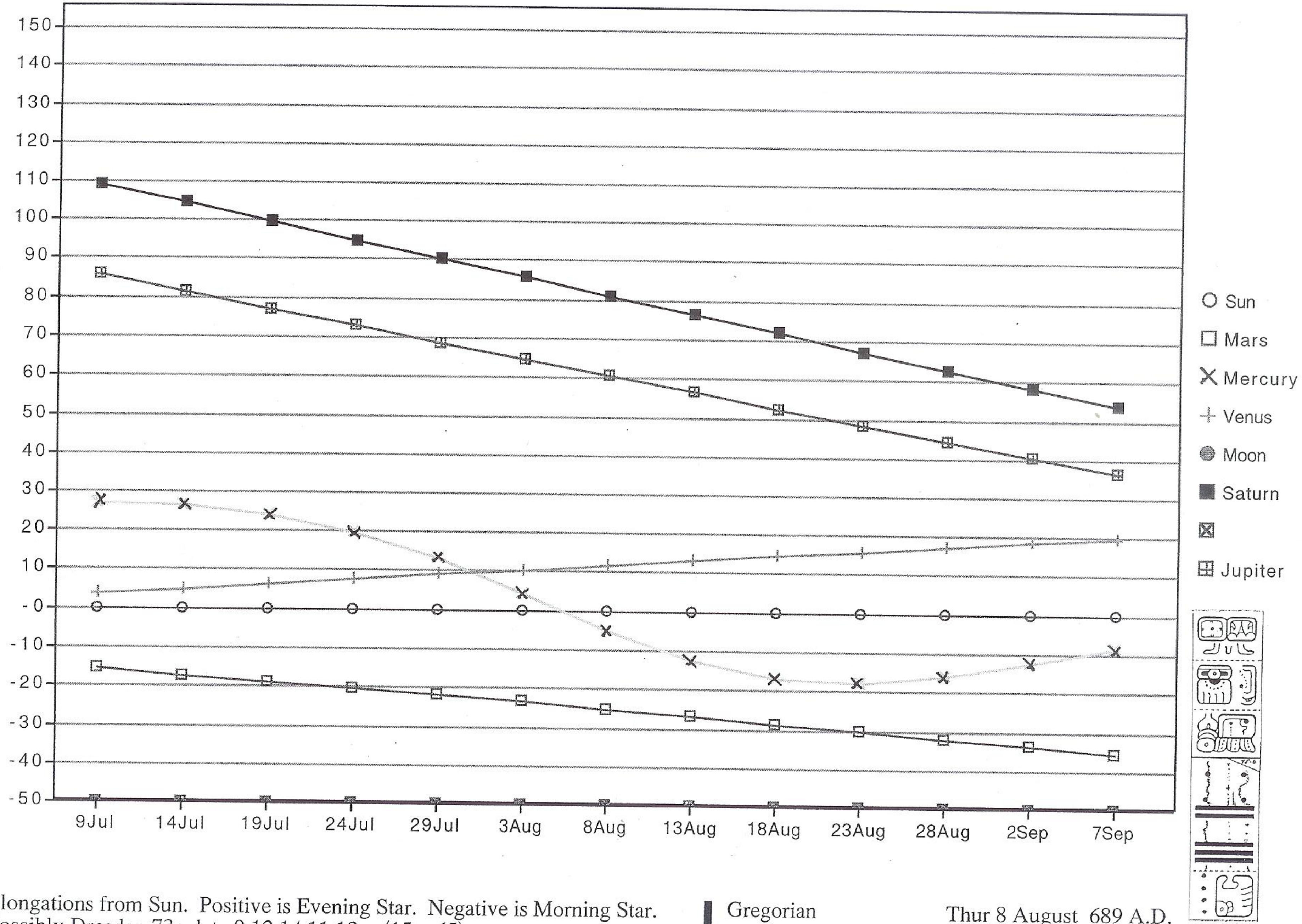
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 71b date 9.12.14.11.12 + (13 x 65)
Text: K'IN-TUUN-HAAB-il TZ'AK-aj CH'E'N-nal

Gregorian		Sun 31 March 689 A.D.
Julian		28 March 689 A.D.
Mayan	9.12.16.17.17	4 Caban 0 Zip
Correlation Constant		584,285



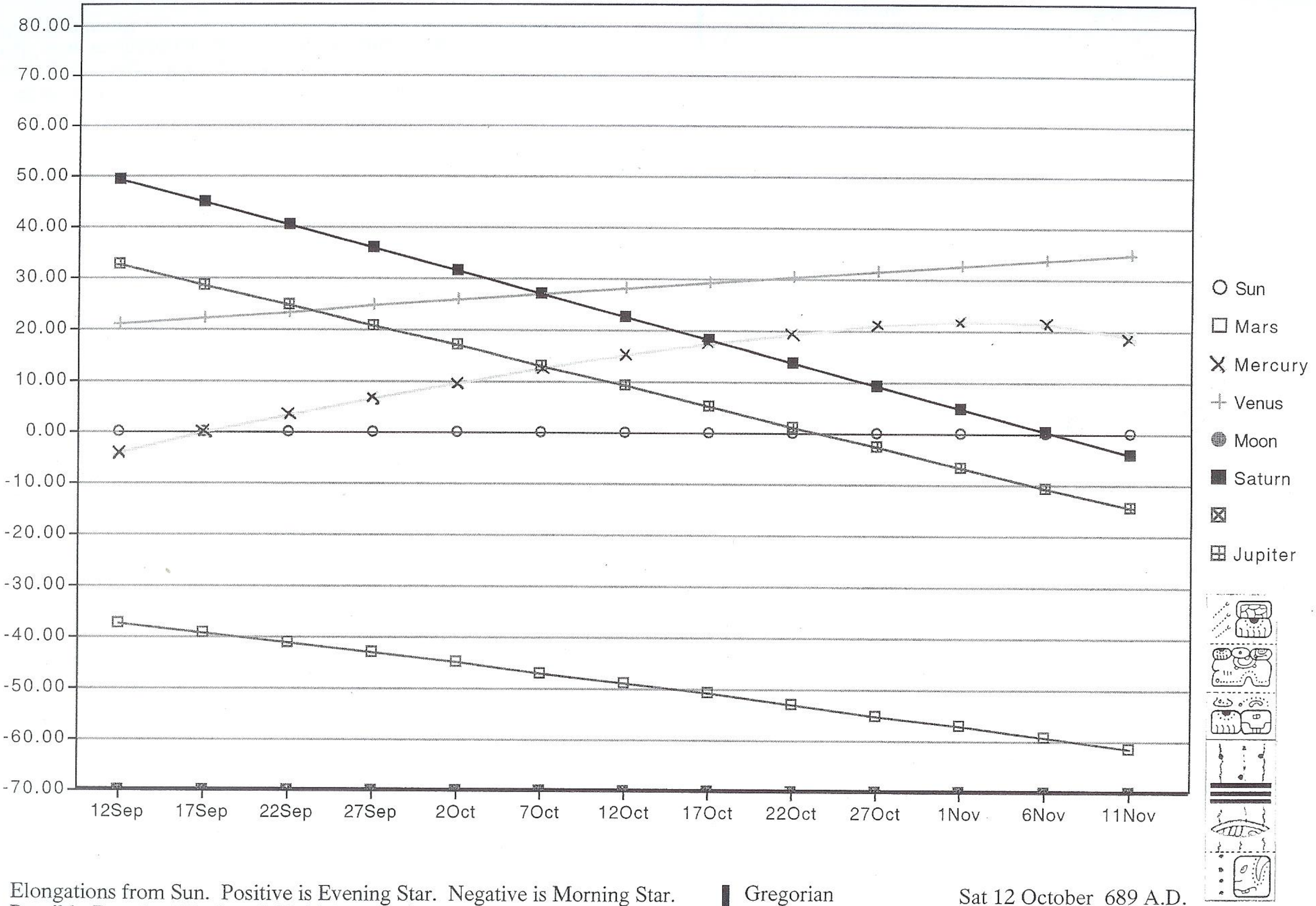
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 71b date 9.12.14.11.12 + (14 x 65)
Text: "travel" (to) "in house" (of the Sun) YAX-mo(m(u))-il YAX-chi-h(i)

Gregorian	Tues 4 June 689 A.D.
Julian	1 June 689 A.D.
Mayan	9.12.17.3.2 4 Ik 5 Xul
Correlation Constant	584,285



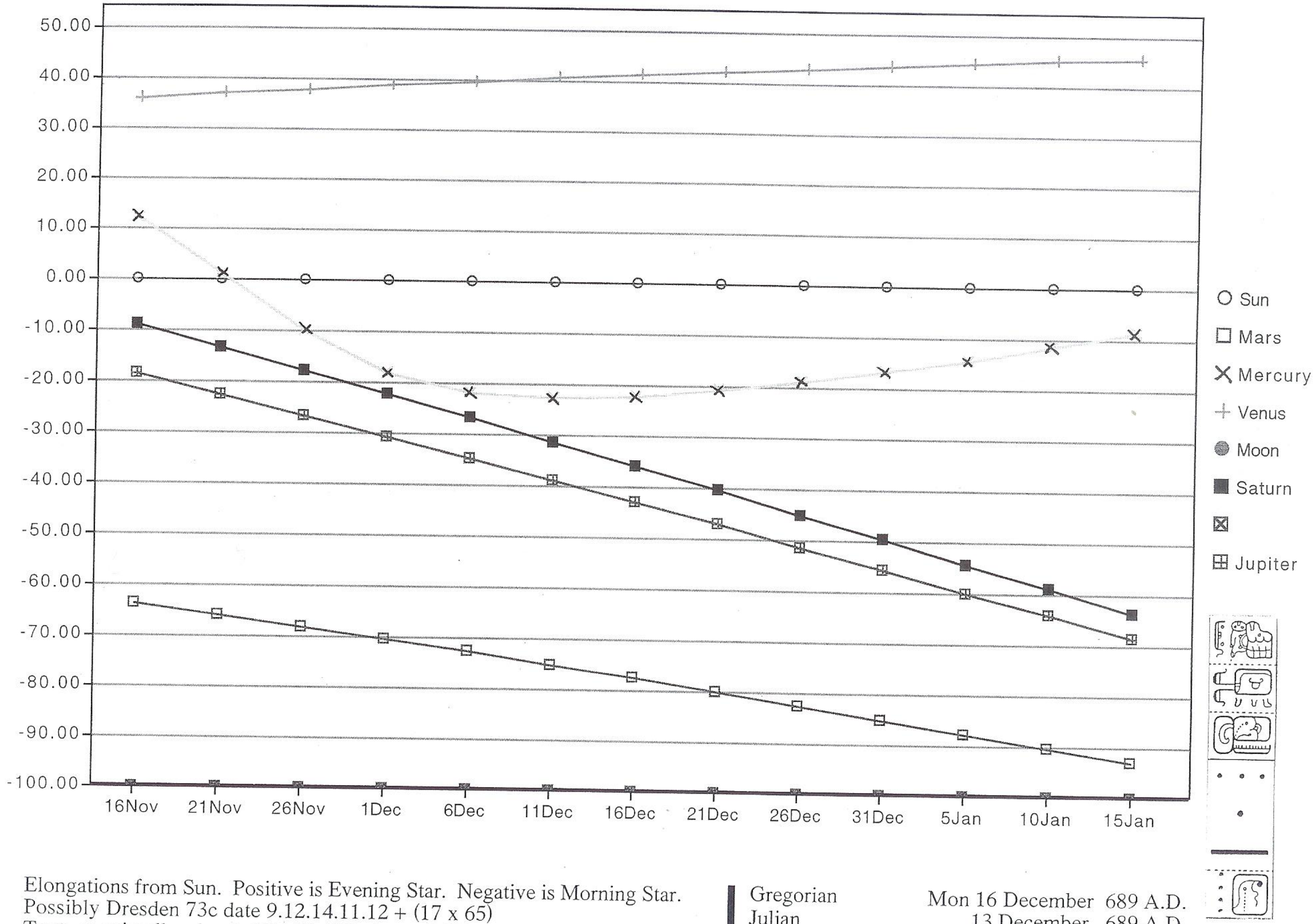
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73c date 9.12.14.11.12 + (15 x 65)
Text: TZ'AK-aj ta-ba-aj(lam) ti-KAB-ba

Gregorian		Thur 8 August	689 A.D.
Julian		5 August	689 A.D.
Mayan	9.12.17.6.7	4 Manik	10 Ch'en
Correlation Constant			584,285



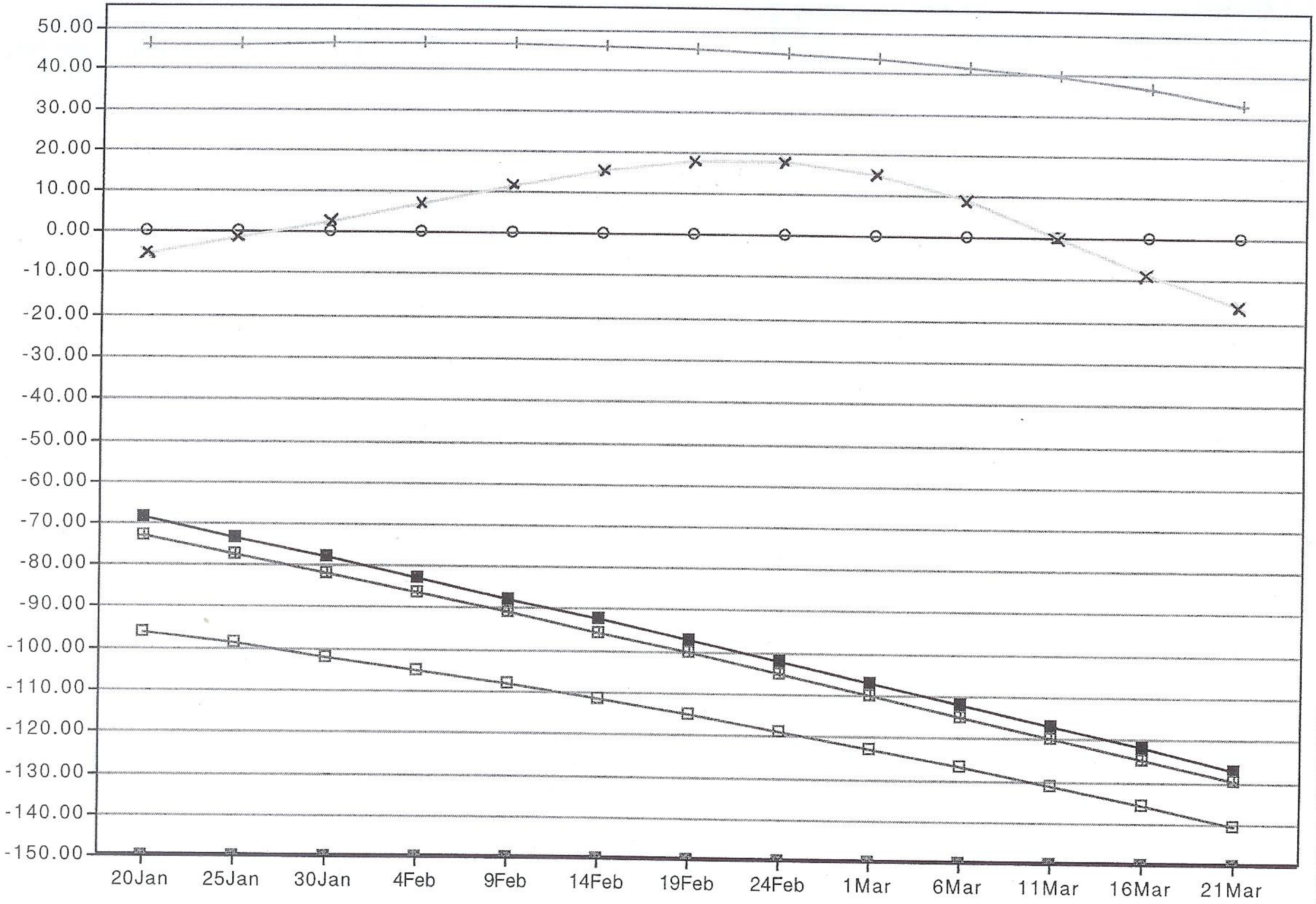
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73c date 9.12.14.11.12 + (16 x 65)
Text: "travel" (to) "house" (of the Sun) Jupiter (and/or) Saturn "plenty"
Jupiter at 9° falling into conjunction with the Sun; Saturn following it.

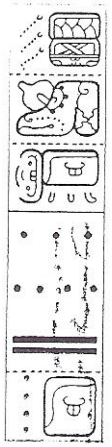
Gregorian	Sat 12 October 689 A.D.
Julian	9 October 689 A.D.
Mayan	9.12.17.9.12 4 Eb 15 Ceh
Correlation Constant	584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73c date 9.12.14.11.12 + (17 x 65)
Text: u-animalhead-nal K'AK'-IK'-aj mu-MUK-ka
(Mars dominant)

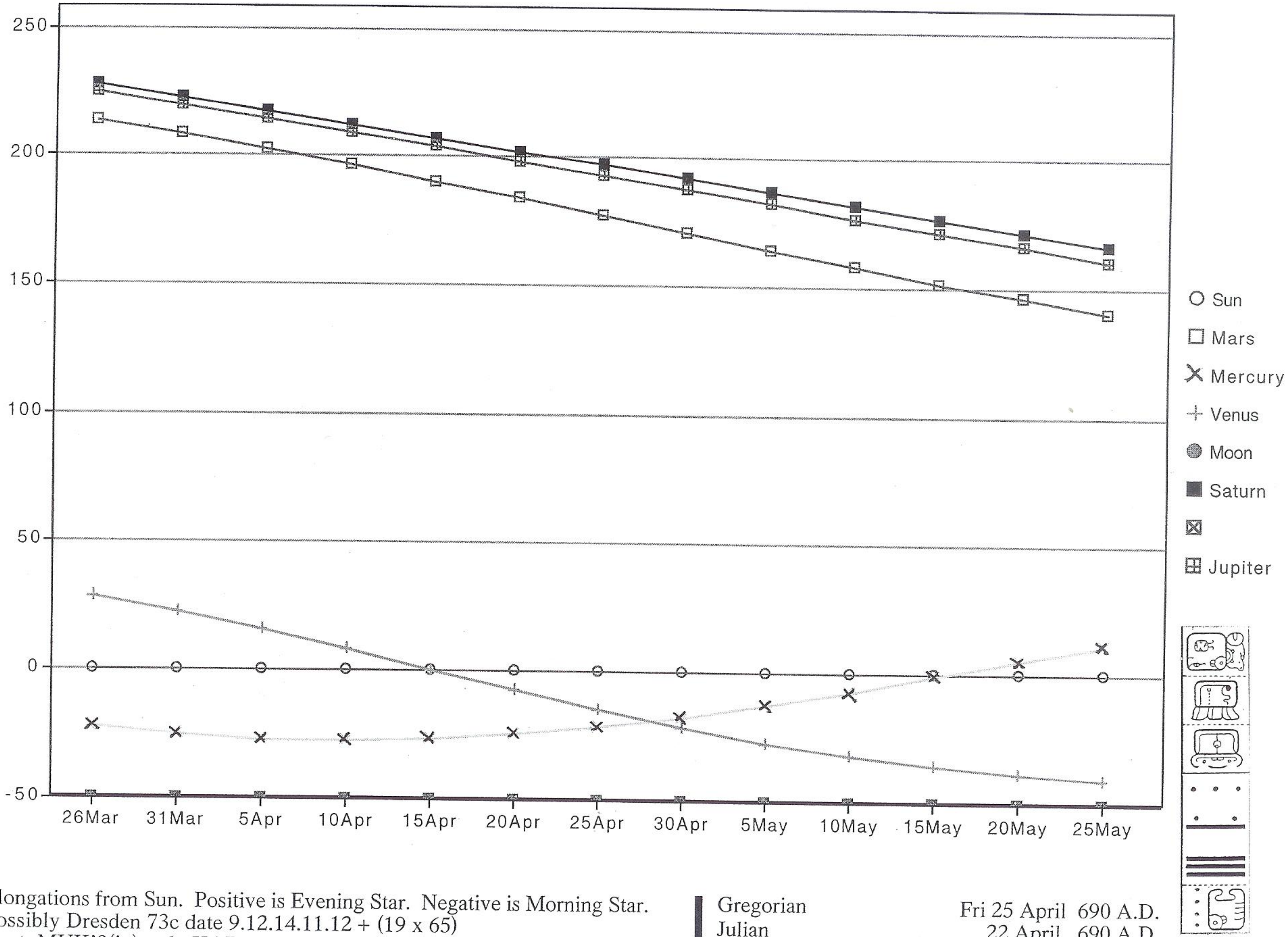
Gregorian	Mon 16 December 689 A.D.	
Julian	13 December 689 A.D.	
Mayan	9.12.17.12.17	4 Caban 0 Pax
Correlation Constant		584,285





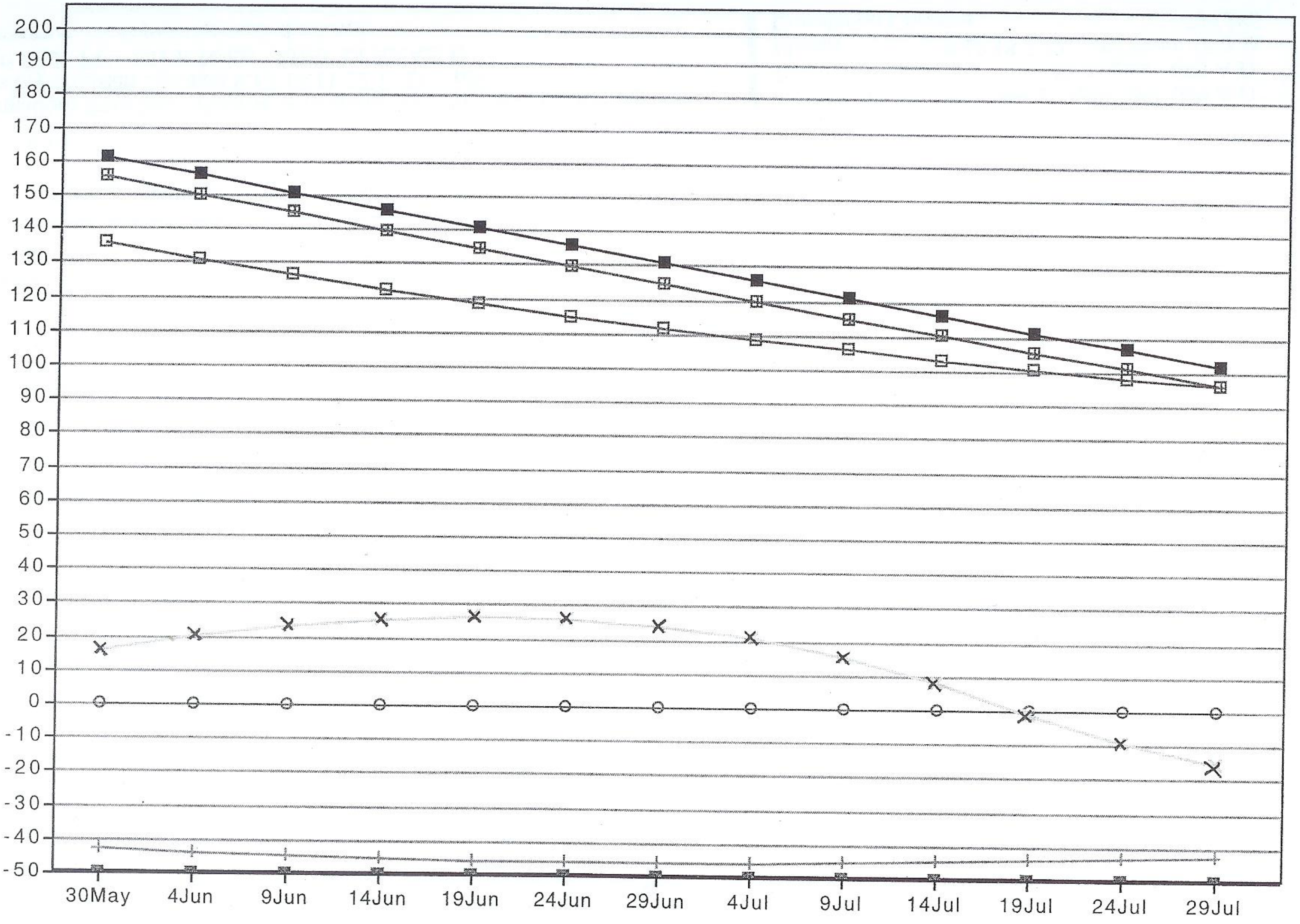
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73c date 9.12.14.11.12 + (18 x 65)
Text: “travel” “high” Jupiter na-IK’-aj
(Jupiter was almost at 1st stationary point)

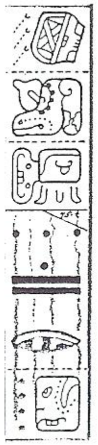
Gregorian	Wed 19 February 690 A.D.
Julian	16 February 690 A.D.
Mayan	9.12.17.16.2 4 Ik 0 Pop
Correlation Constant	584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 73c date 9.12.14.11.12 + (19 x 65)
Text: MUK'?(in)-nal   KAB-ba   CH'E'N-na

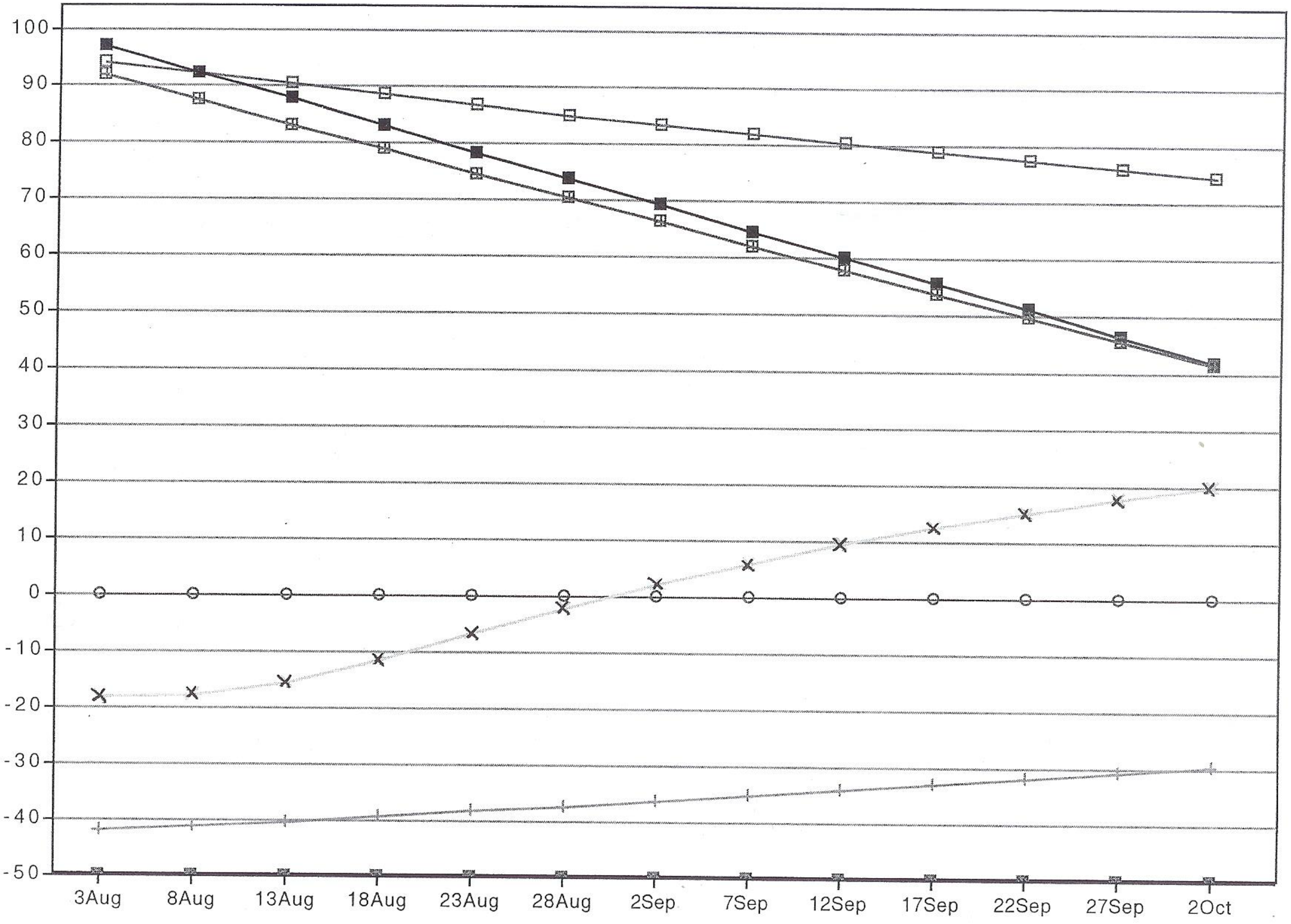
Gregorian		Fri 25 April 690 A.D.
Julian		22 April 690 A.D.
Mayan	9.12.18.1.7	4 Manik 5 Zotz'
Correlation Constant		584,285

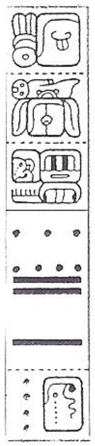




Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (20 x 65)
Text: "standstill" Jupiter nah-IK'--aj
(Jupiter is almost at its second standstill.)

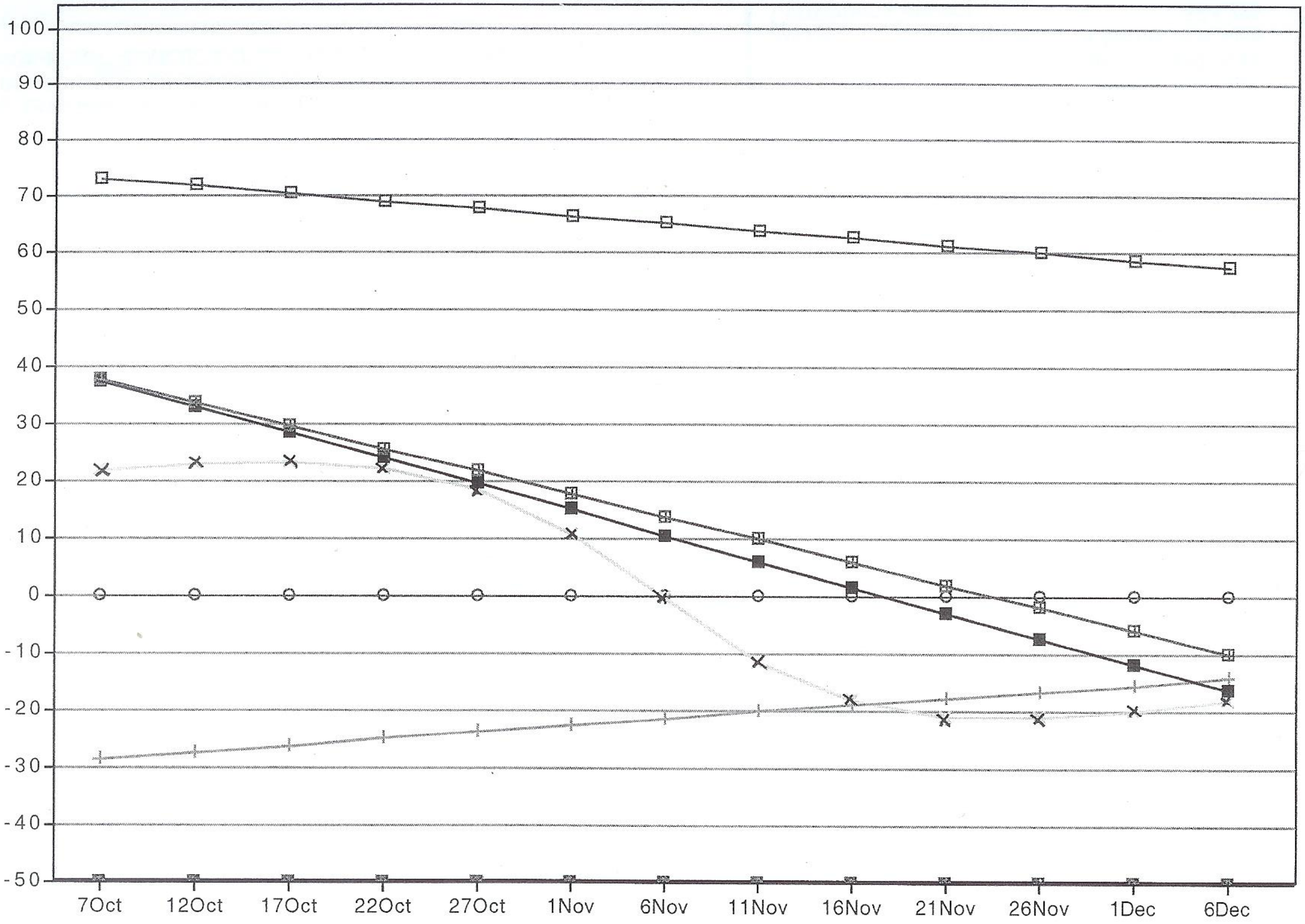
Gregorian		Sun 29 June 690 A.D.
Julian		26 June 690 A.D.
Mayan	9.12.18.4.12	4 Eb 10 Yaxkin
Correlation Constant		584,285

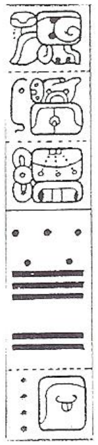




Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (21 x 65)
Text: SAK-IK' CH'E'N-nal MUK-ka HAAB-il
(Mercury is in conjunction with the Sun.)

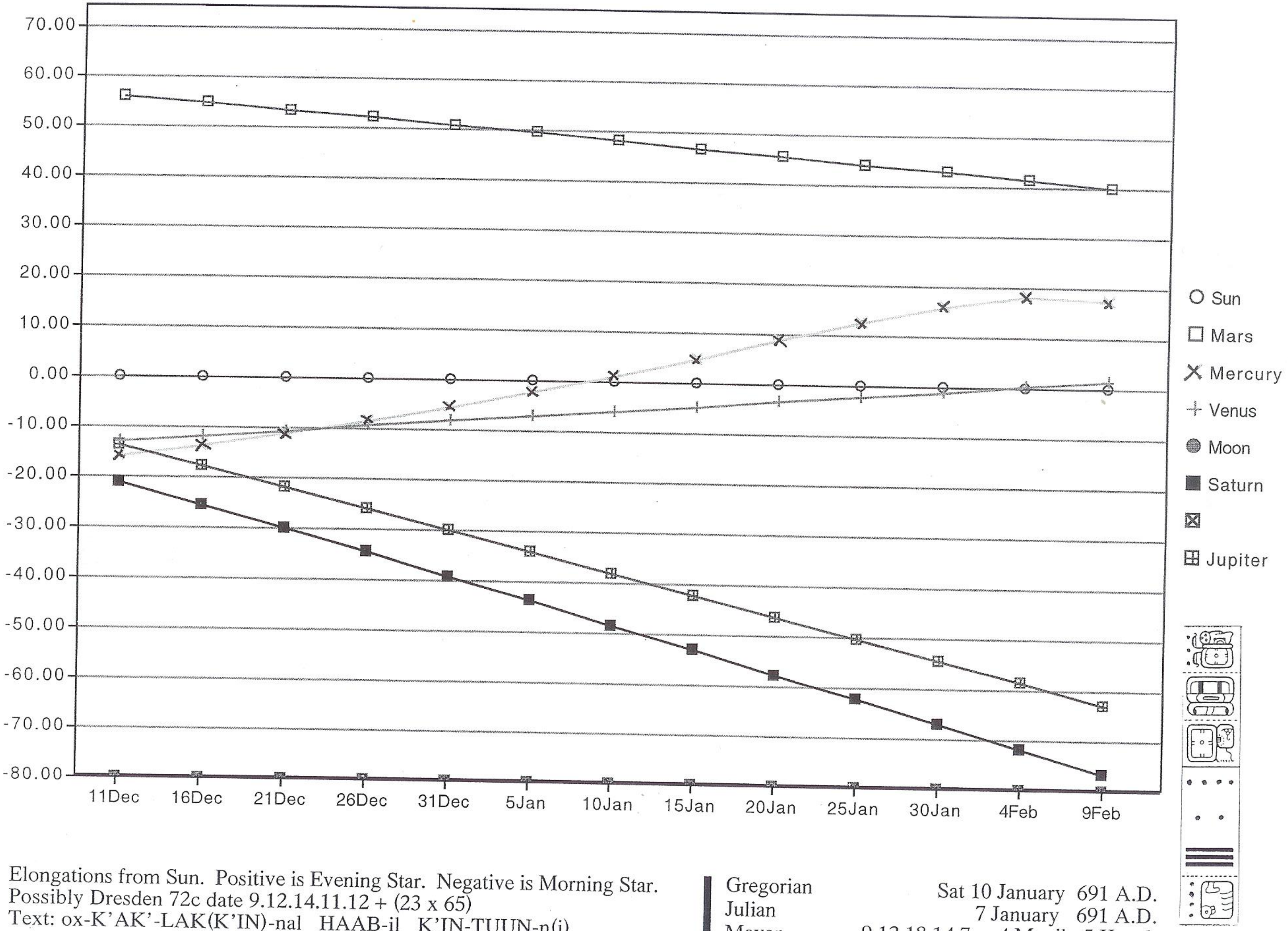
Gregorian		Tues 2 September 690 A.D.
Julian		30 August 690 A.D.
Mayan	9.12.18.7.17	4 Caban 15 Yax
Correlation Constant		584,285





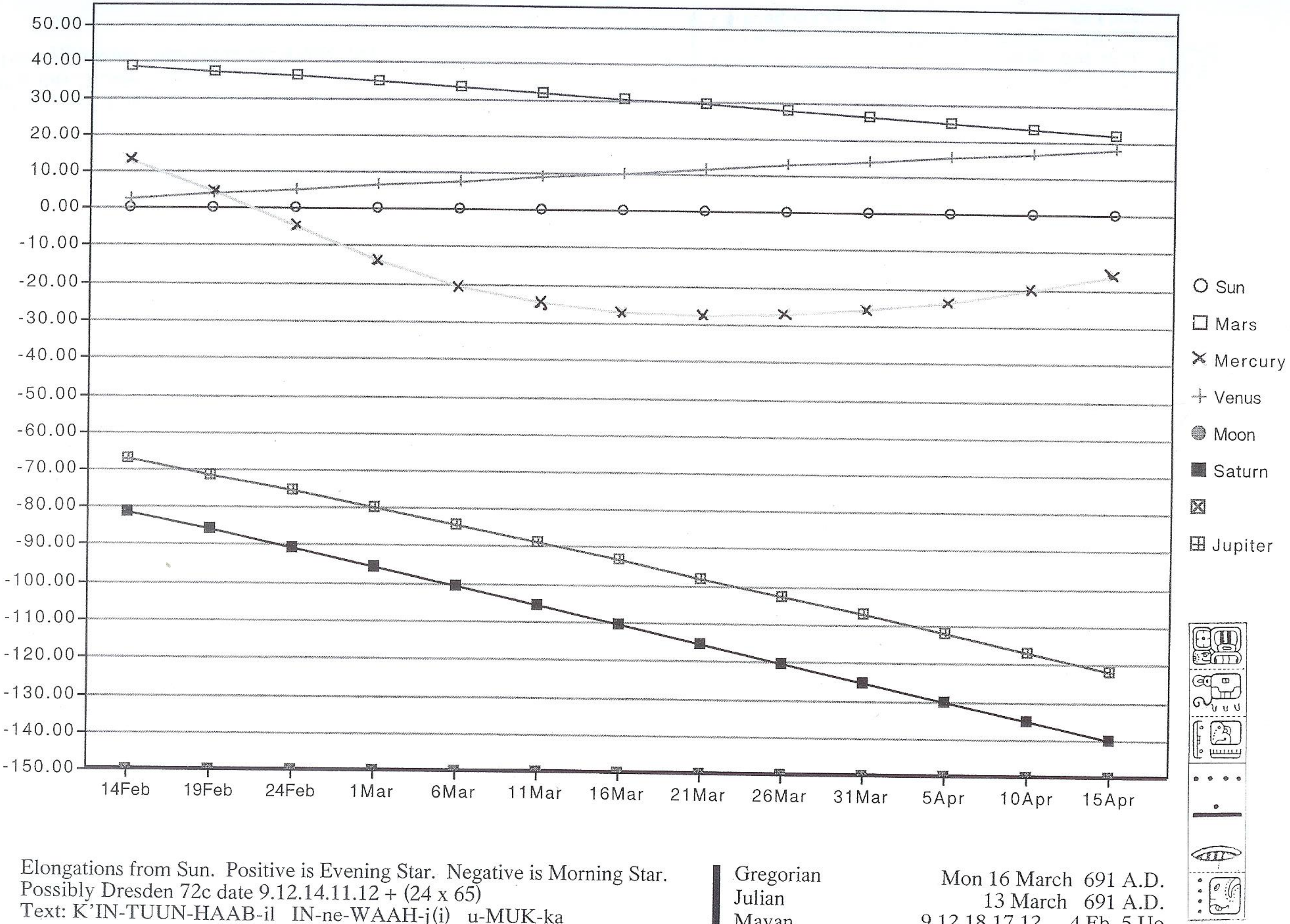
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (22 x 65)
Text: u-OK-wa ?-CH'E'N-nal yu-tzi-l(i)
((Mercury) is passing through conjunction with the Sun.)

Gregorian	Thur 6 November	690 A.D.
Julian	3 November	690 A.D.
Mayan	9.12.18.11.2 4 Ik	0 Kankin
Correlation Constant		584,285



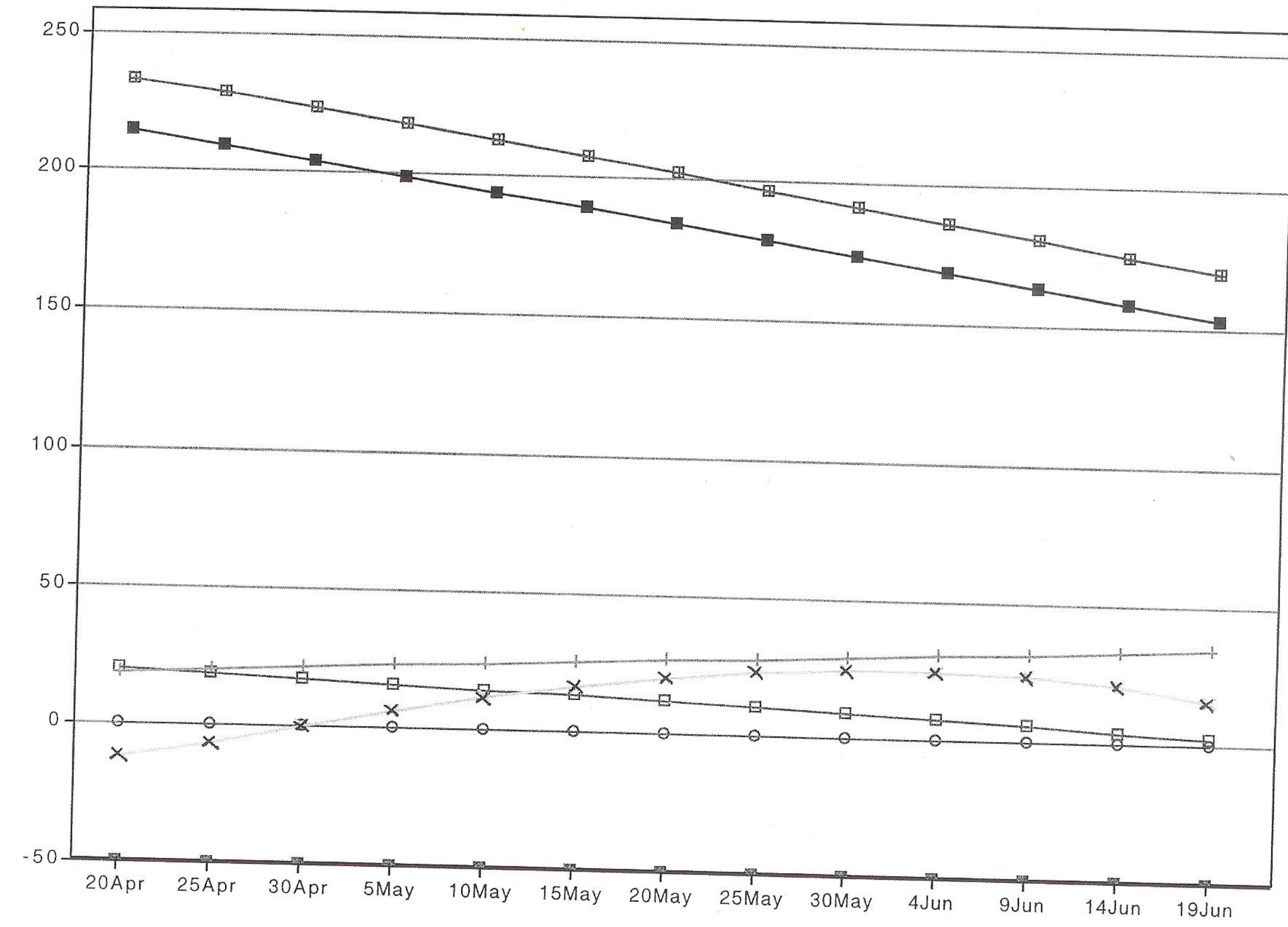
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (23 x 65)
Text: ox-K'AK'-LAK(K'IN)-nal HAAB-il K'IN-TUUN-n(i)

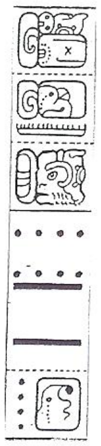
Gregorian		Sat 10 January	691 A.D.
Julian		7 January	691 A.D.
Mayan	9.12.18.14.7	4 Manik	5 Kayab
Correlation Constant			584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (24 x 65)
Text: K'IN-TUUN-HAAB-il IN-ne-WAAH-j(i) u-MUK-ka

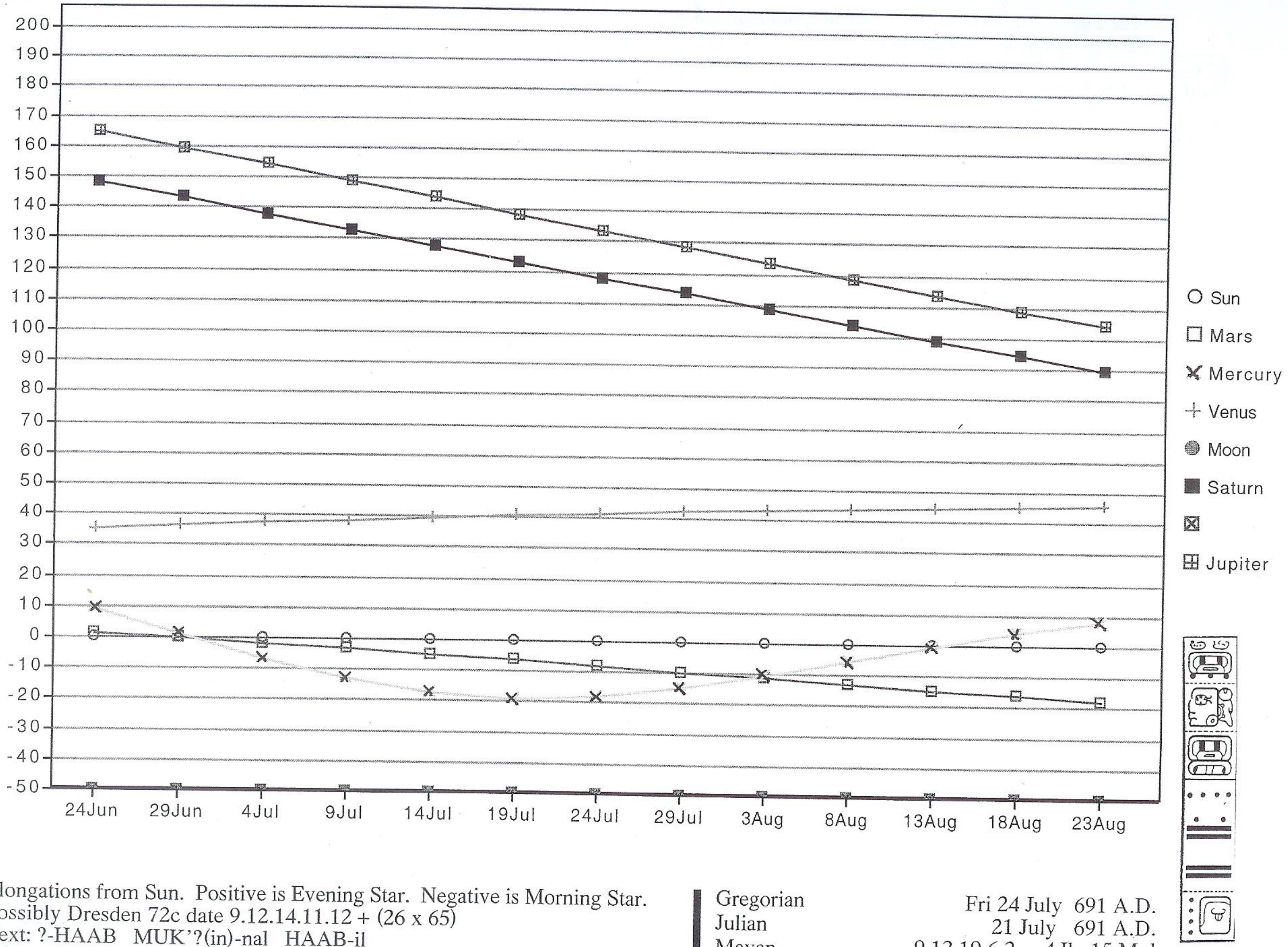
Gregorian	Mon 16 March 691 A.D.
Julian	13 March 691 A.D.
Mayan	9.12.18.17.12 4 Eb 5 Uo
Correlation Constant	584,285





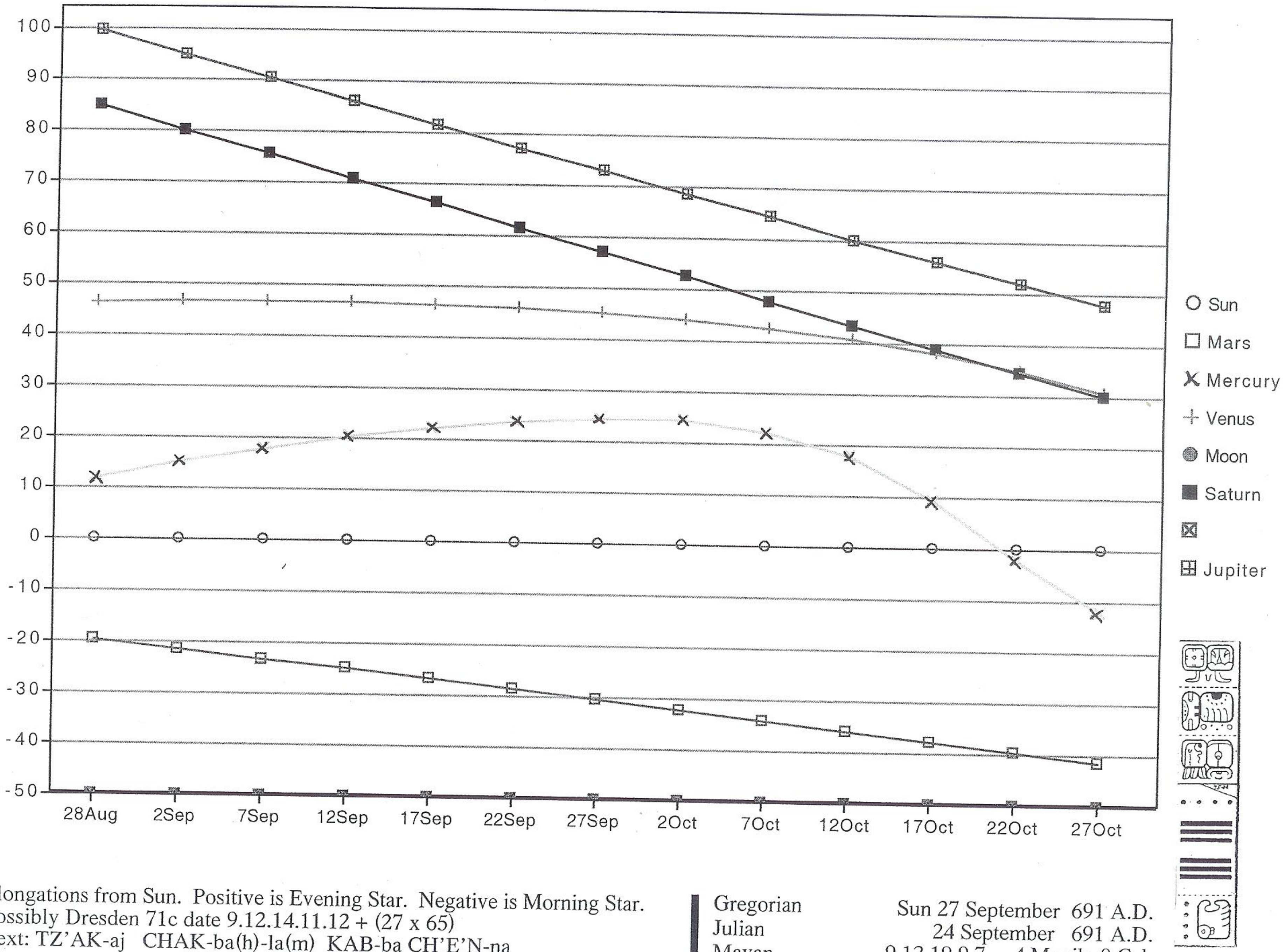
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (25 x 65)
Text: mu-uk-nal   mu-MUK-ka   MaizeGod

Gregorian		Wed 20 May 691 A.D.
Julian		17 May 691 A.D.
Mayan	9.12.19.2.17	4 Caban 10 Zec
Correlation Constant		584,285



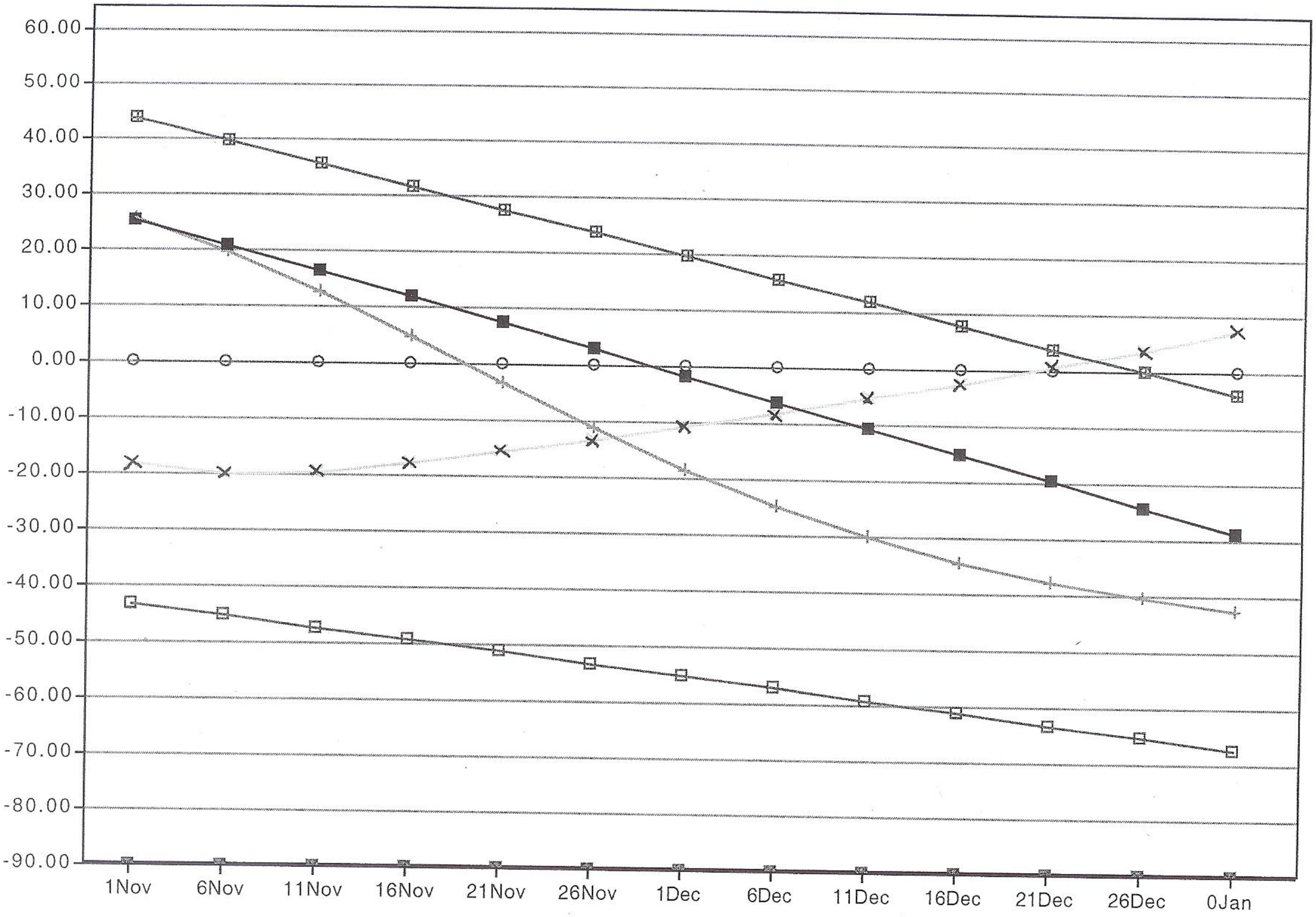
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 72c date 9.12.14.11.12 + (26 x 65)
Text: ?-HAAB MUK'?(in)-nal HAAB-il

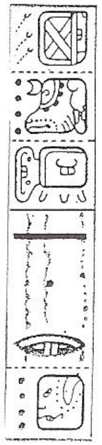
Gregorian	Fri 24 July 691 A.D.
Julian	21 July 691 A.D.
Mayan	9.12.19.6.2 4 Ik 15 Mol
Correlation Constant	584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 71c date 9.12.14.11.12 + (27 x 65)
Text: TZ'AK-aj CHAK-ba(h)-la(m) KAB-ba CH'E'N-na

Gregorian	Sun 27 September 691 A.D.
Julian	24 September 691 A.D.
Mayan	9.12.19.9.7 4 Manik 0 Ceh
Correlation Constant	584,285





Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Possibly Dresden 71c date 9.12.14.11.12 + (28 x 65)
Text: "travel" (stationary?) kan-Jupiter/Saturn na-IK'-j(i)

Gregorian	Tues 1 December 691 A.D.
Julian	28 November 691 A.D.
Mayan	9.12.19.12.12 4 Eb 5 Muan
Correlation Constant	584,285

Appendix C.

The 18 Stations of the Dresden Codex pp.31a-39a and the New Year's Day during One of the Intervals, Shown by a Picture

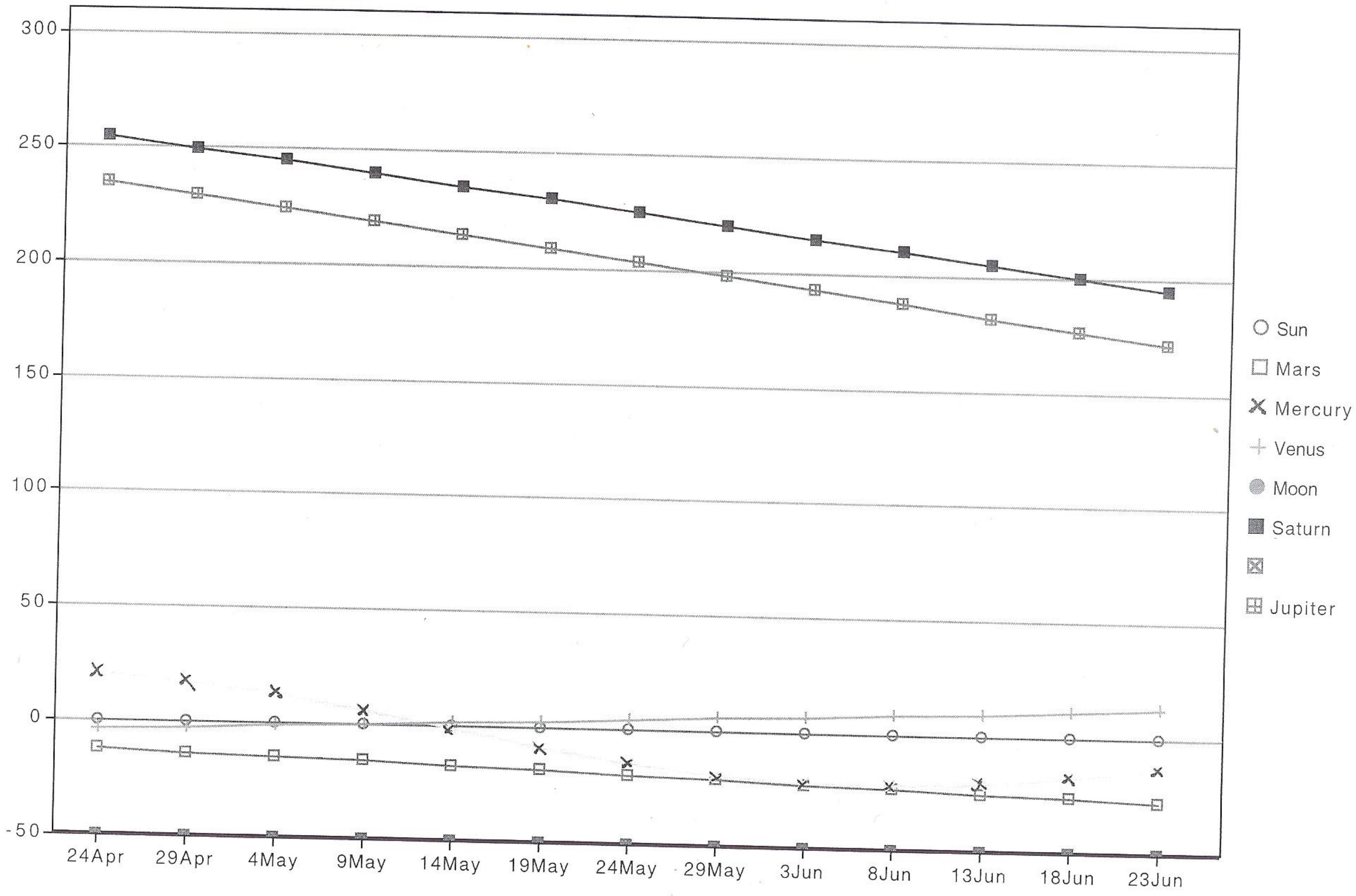
Starting the Table at

9.0.15.7.3 13 Ak'bal 1 Pax 451 February 12 (Julian)

The 13 Ak'bal is explicit in the last column of Dresden 31a, with the multiple 4.0.16.0 above it. The Long Reckoning in the first column of the preface reaches 8.16.14.9.3, and adding 4.0.16.0 reaches 13 Ak'bal 1 Pax at a long count 9.0.15.7.3.

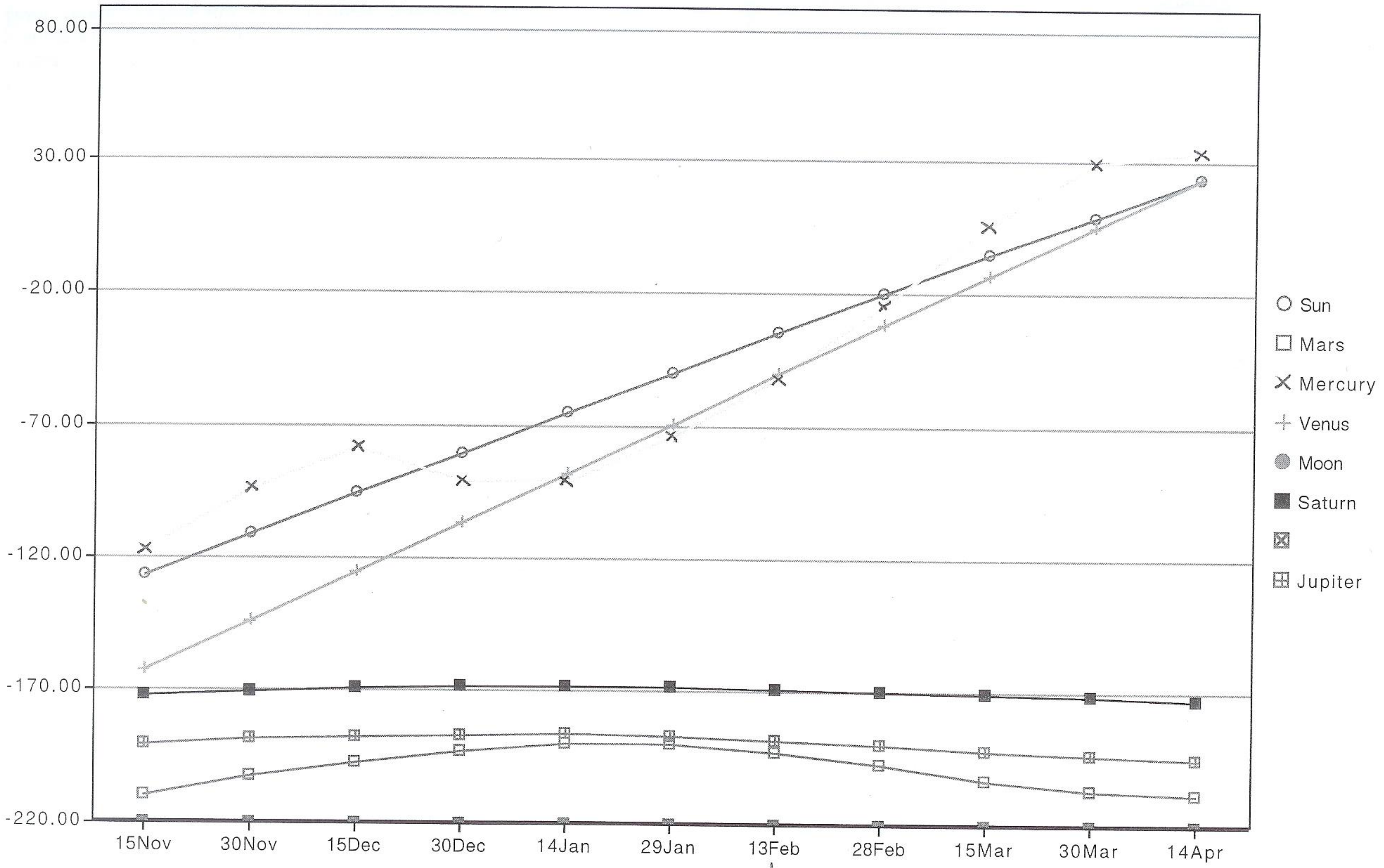
The first graph gives an overview of the planetary motions for the full span of the almanac. The second graph shows the outer planets reaching their first stationary points about 30 days before the start of this almanac. The third graph shows the outer planets reaching their second stationary points about 65 days after the end of this almanac. To make this visually clear, these two graphs exceptionally show geocentric longitudes rather than elongations from the Sun. The fourth graph is the starting point of the almanac.

The starting date used here is, so far as this author is aware, novel.



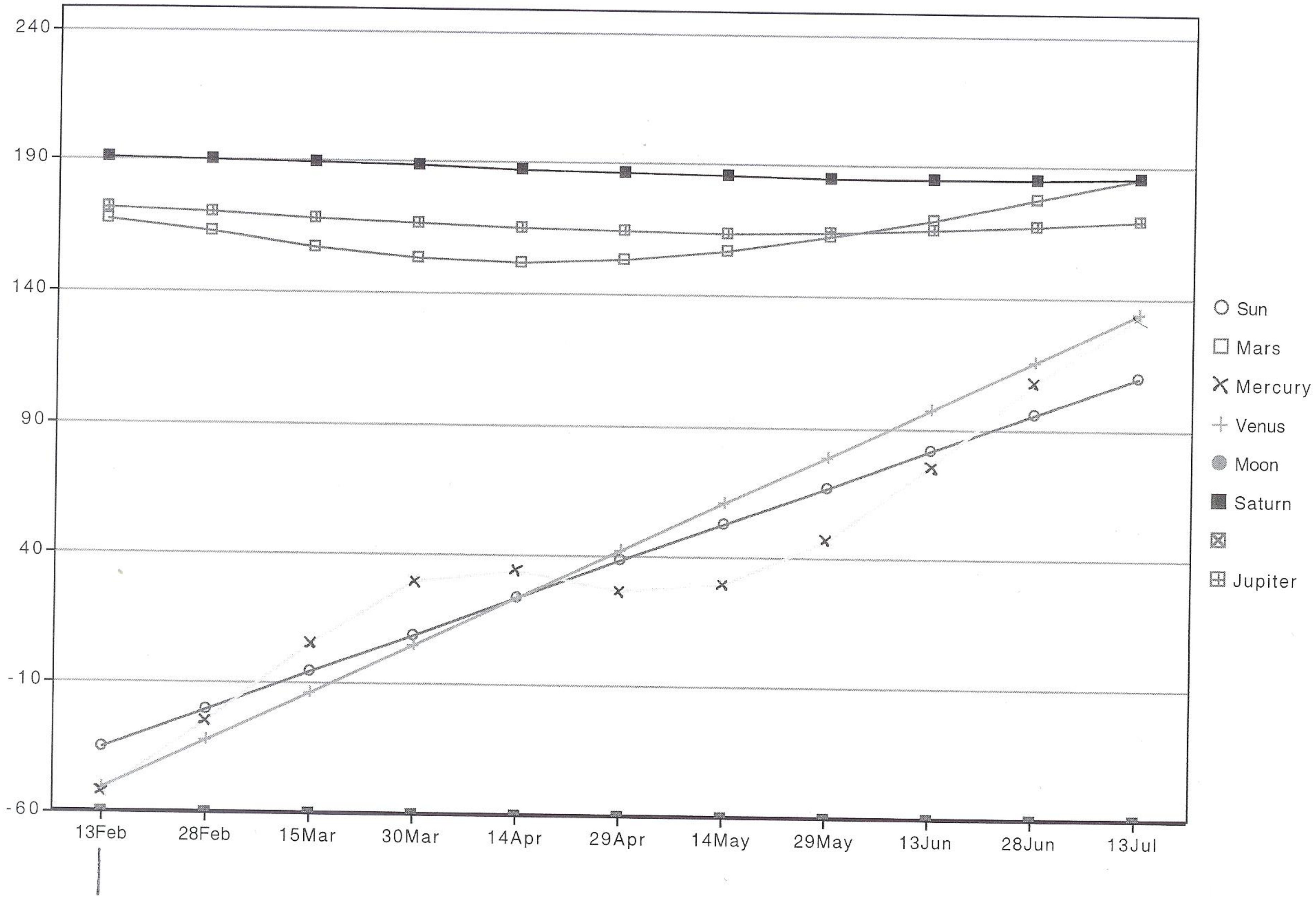
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresde 31a preface, first long reckoning

Gregorian		Mon 24 May	371 A.D.
Julian		23 May	371 A.D.
Mayan	8.16.14.9.3	13 Akbal	16 Pop
Correlation Constant			584,285



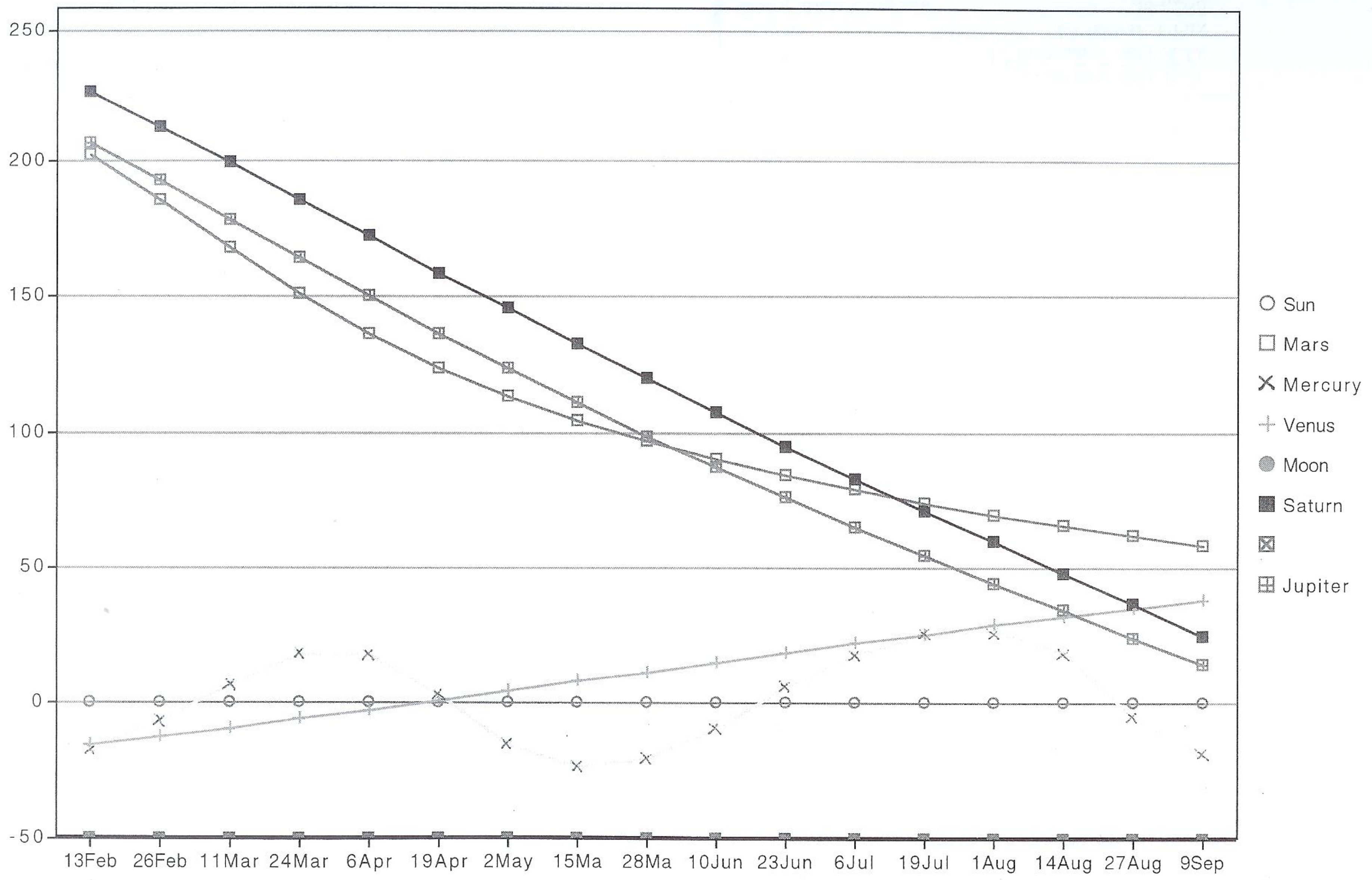
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a, if it began at 9.0.15.7.3. About 30 days earlier, all three outer planets were near their 1st stationary points, and Mercury had just joined Venus, to fall together into the Sun.

Gregorian	Mon 13 February 451 A.D.
Julian	12 February 451 A.D.
Mayan	9.0.15.7.3 13 Akbal 1 Pax
Correlation Constant	584,285



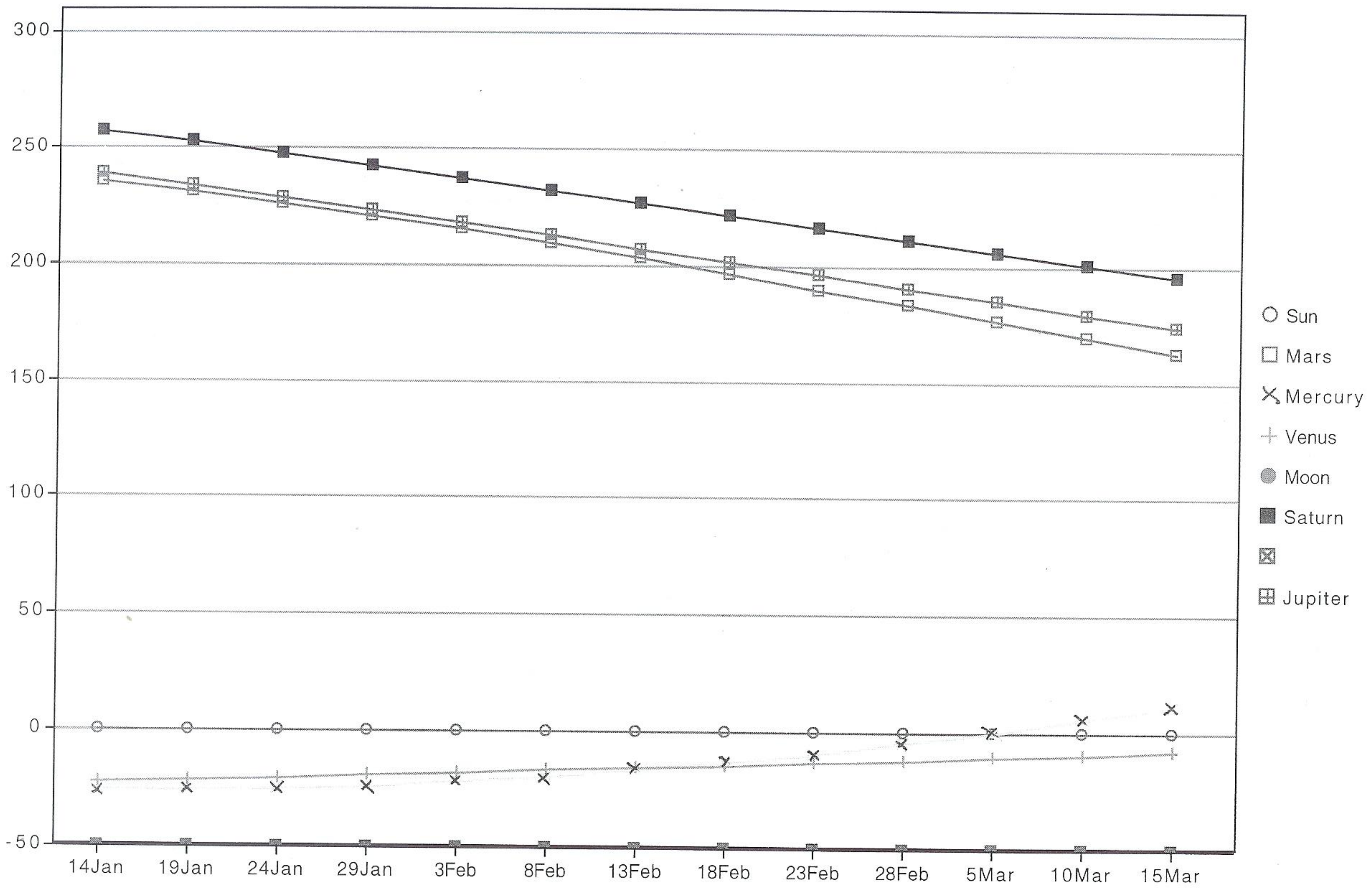
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a, if it began at 9.0.15.7.3. About 65 days later, all three outer planets were near their second stationary points (Mars reaching it first). Both Venus and Mercury were in conjunction with the Sun.

Gregorian	Mon 13 February 451 A.D.
Julian	12 February 451 A.D.
Mayan	9.0.15.7.3 13 Akbal 1 Pax
Correlation Constant	584,285



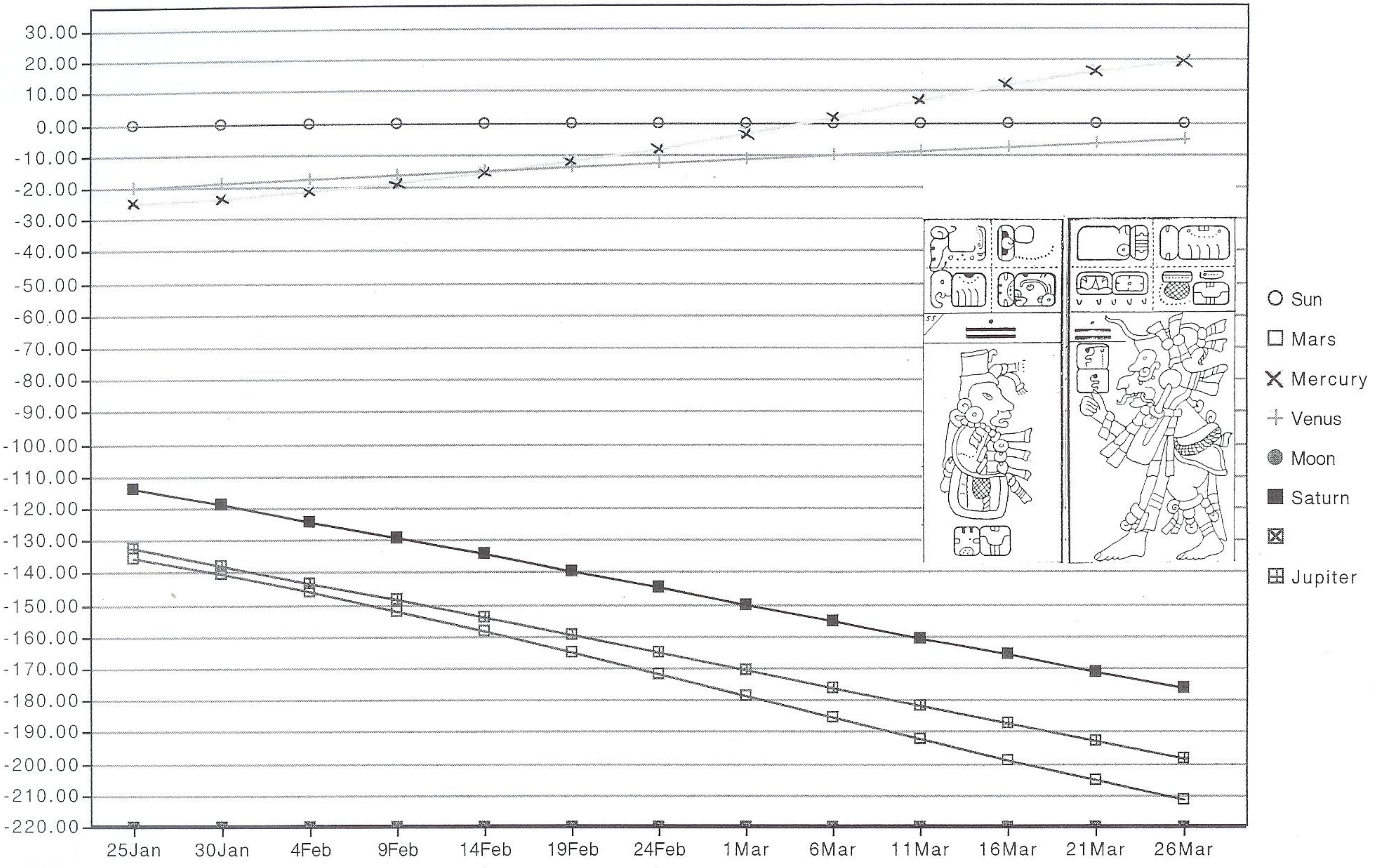
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a, at 13-day intervals, if it began at 9.0.15.7.3, the explicit day 13 Ak'bal in the last column of Dresden 31a, at 8.16.14.9.3 (date from first column of preface) plus 4.0.16.0 (largest multiple, just above the 13 Ak'bal).

Gregorian	Mon 13 February 451 A.D.
Julian	12 February 451 A.D.
Mayan	9.0.15.7.3 13 Akbal 1 Pax
Correlation Constant	584,285



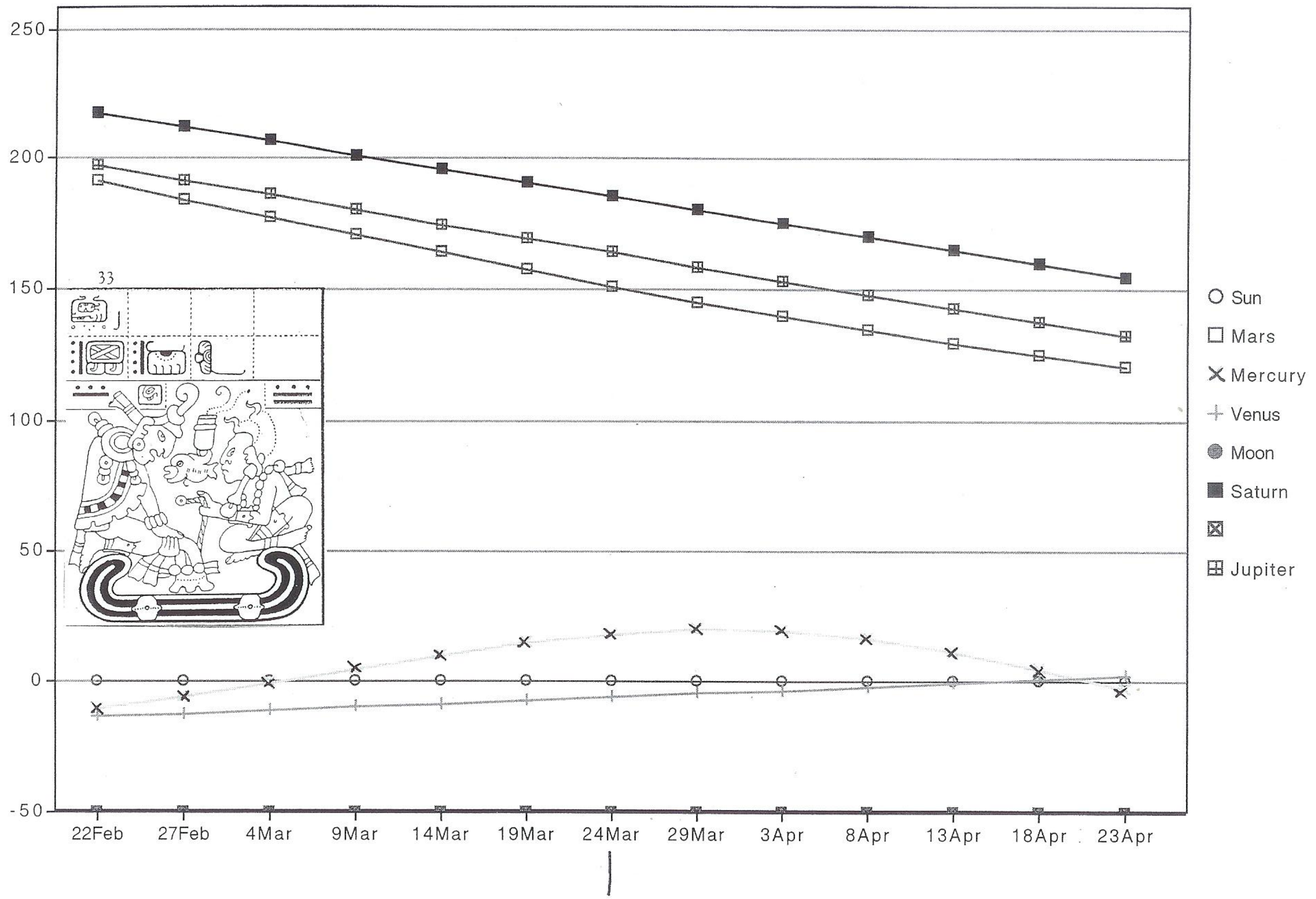
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a preface, 8.16.14.9.3 + 4.0.16.0

Gregorian	Mon 13 February 451 A.D.
Julian	12 February 451 A.D.
Mayan	9.0.15.7.3 13 Akbal 1 Pax
Correlation Constant	584,285



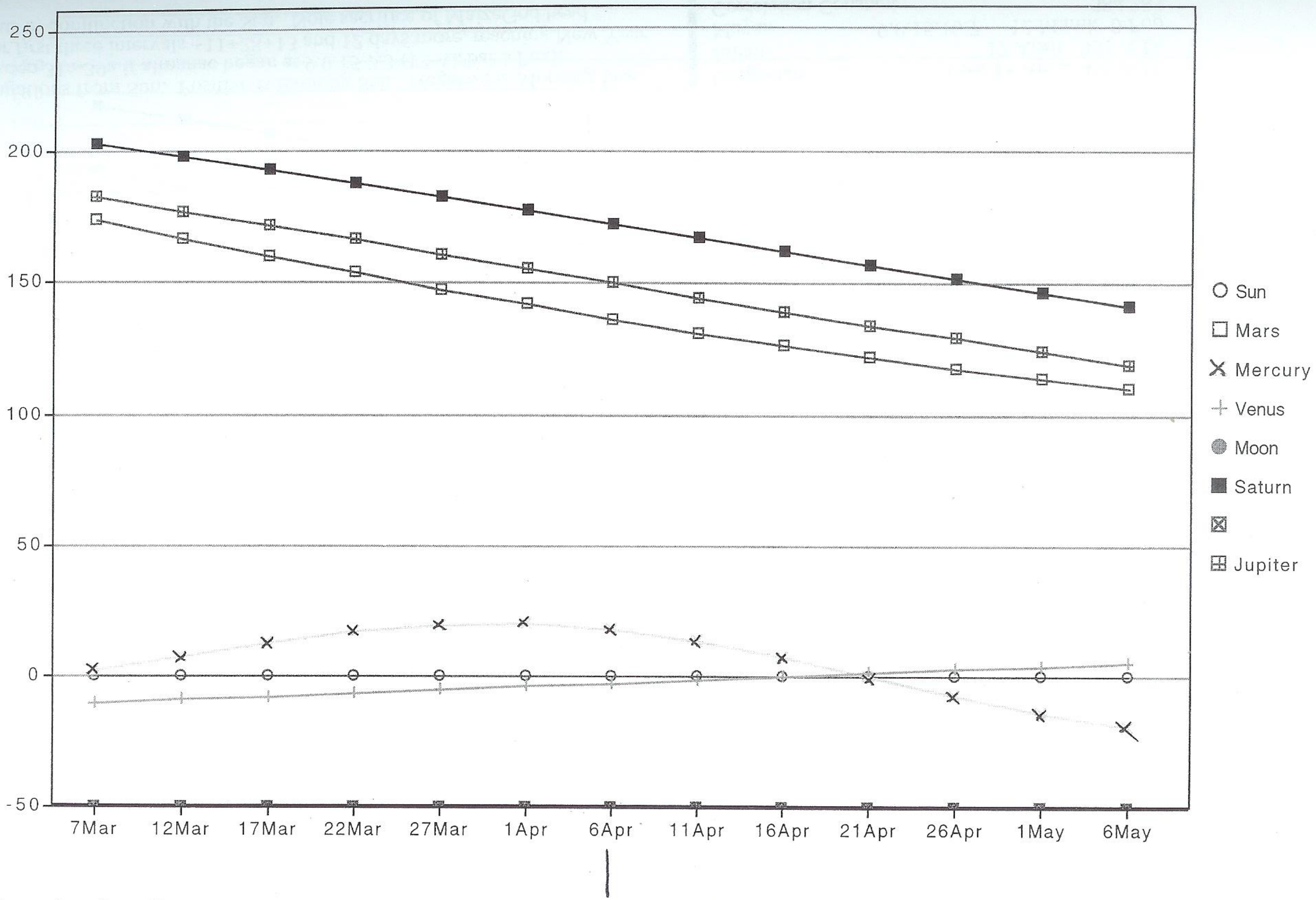
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first interval +11 days.

Gregorian	Fri 24 February 451 A.D.
Julian	23 February 451 A.D.
Mayan	9.0.15.7.14 11 Ix 12 Pax
Correlation Constant	584,285



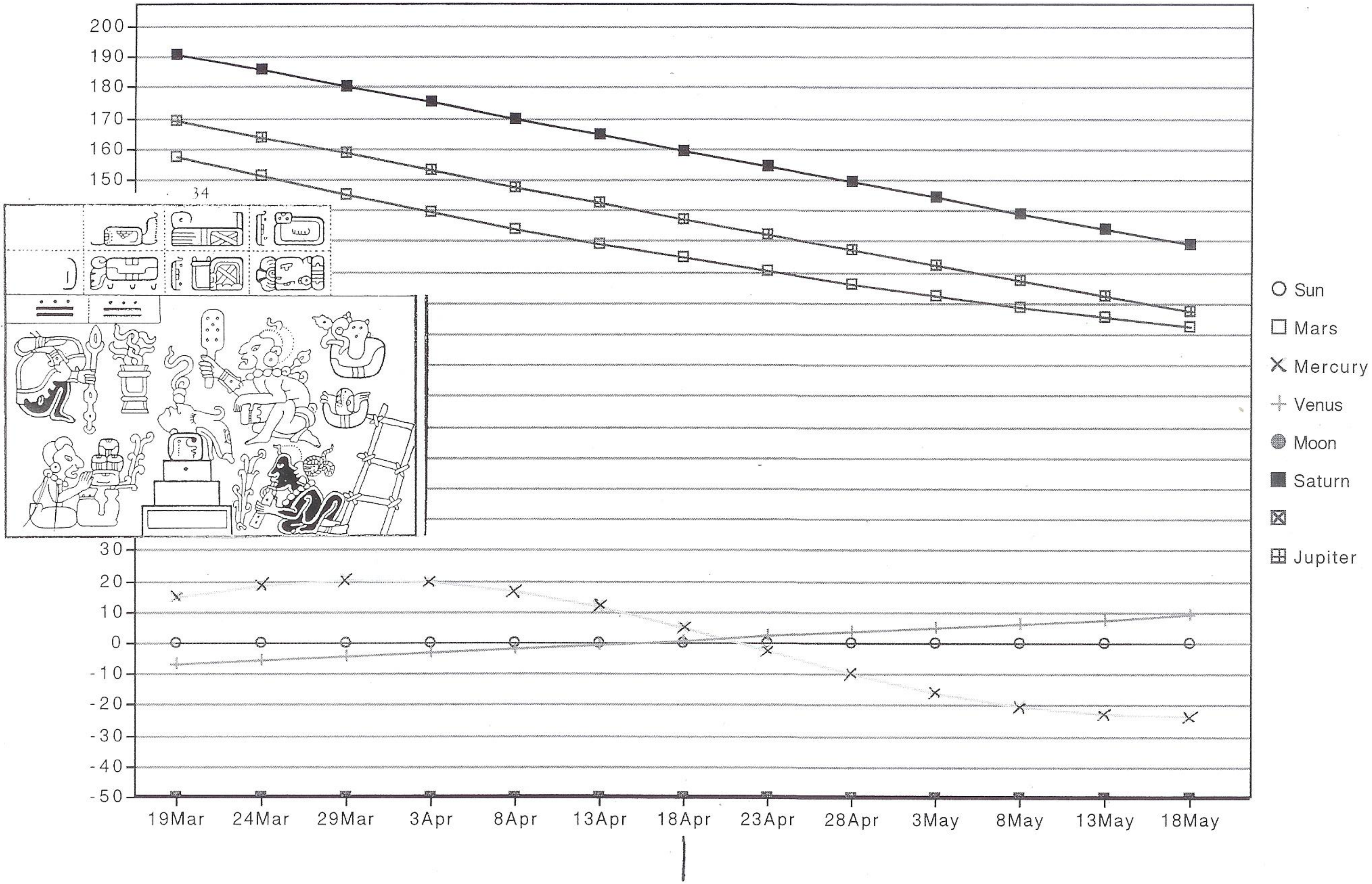
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
after first two intervals +11+28 = +39 days

Gregorian		Fri 24 March	451 A.D.
Julian		23 March	451 A.D.
Mayan	9.0.15.9.2	13 Ik	0 Cumku
Correlation Constant			584,285



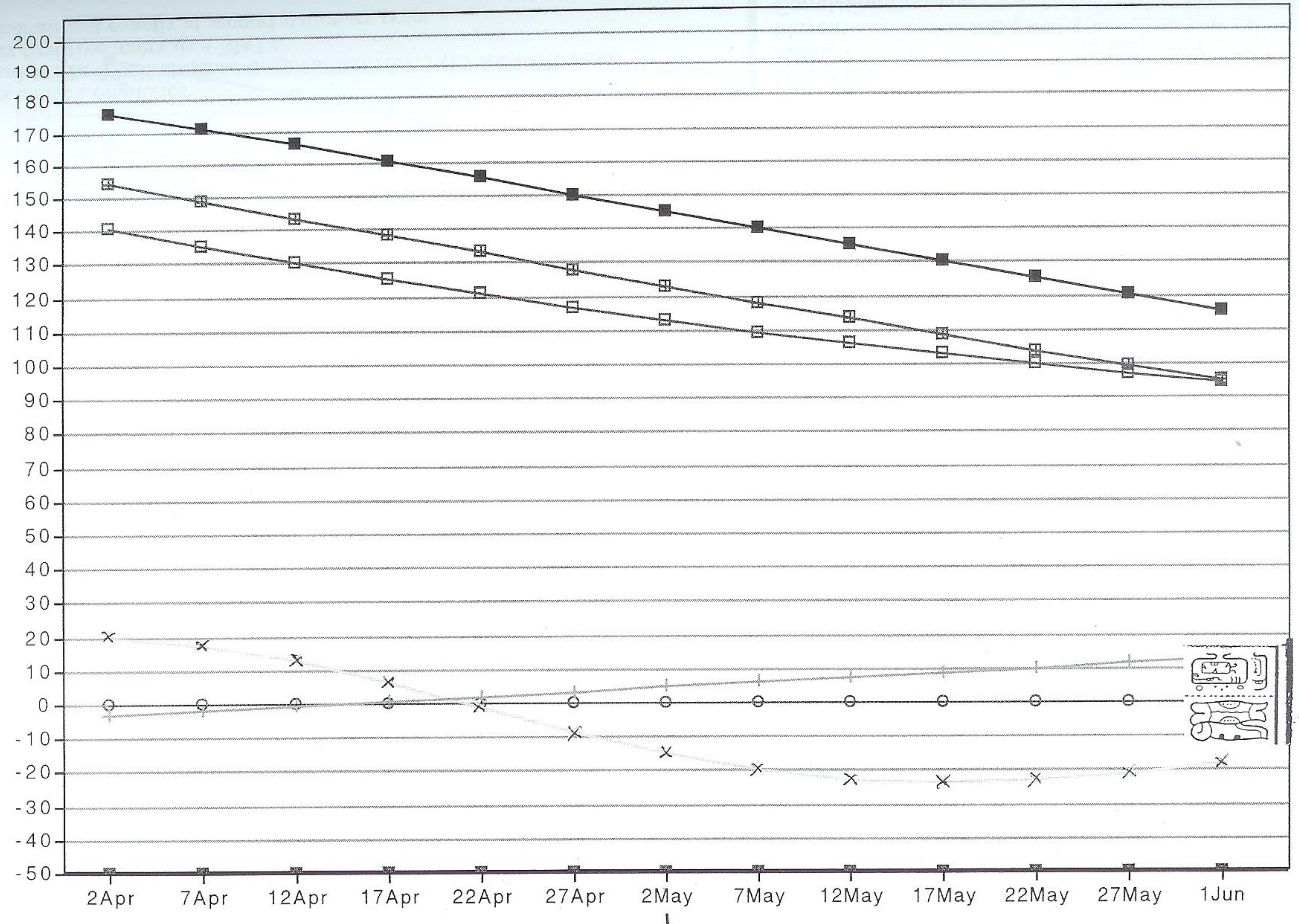
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first three intervals +39+13

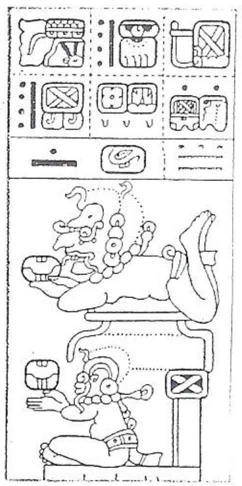
Gregorian		Thur 6 April 451 A.D.
Julian		5 April 451 A.D.
Mayan	9.0.15.9.15	13 Men 13 Cumku
Correlation Constant		584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax). After first three intervals +11+28+13 and 12 days more, reaching New Year. Venus in conjunction with the Sun. Note sacrifice of MaizeGod head.

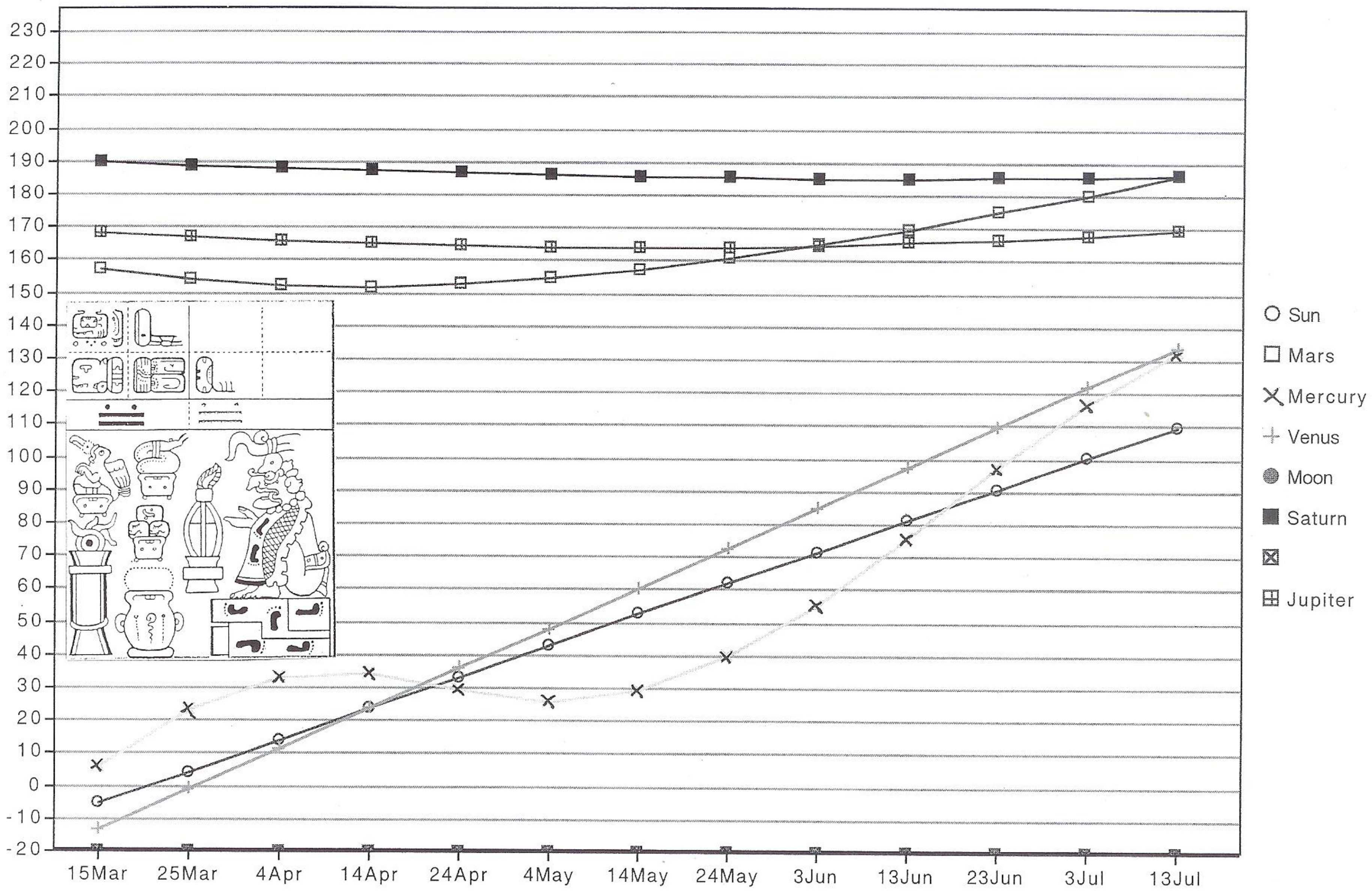
Gregorian		Tues 18 April 451 A.D.
Julian		17 April 451 A.D.
Mayan	9.0.15.10.7	12 Manik 0 Pop
Correlation Constant		584,285





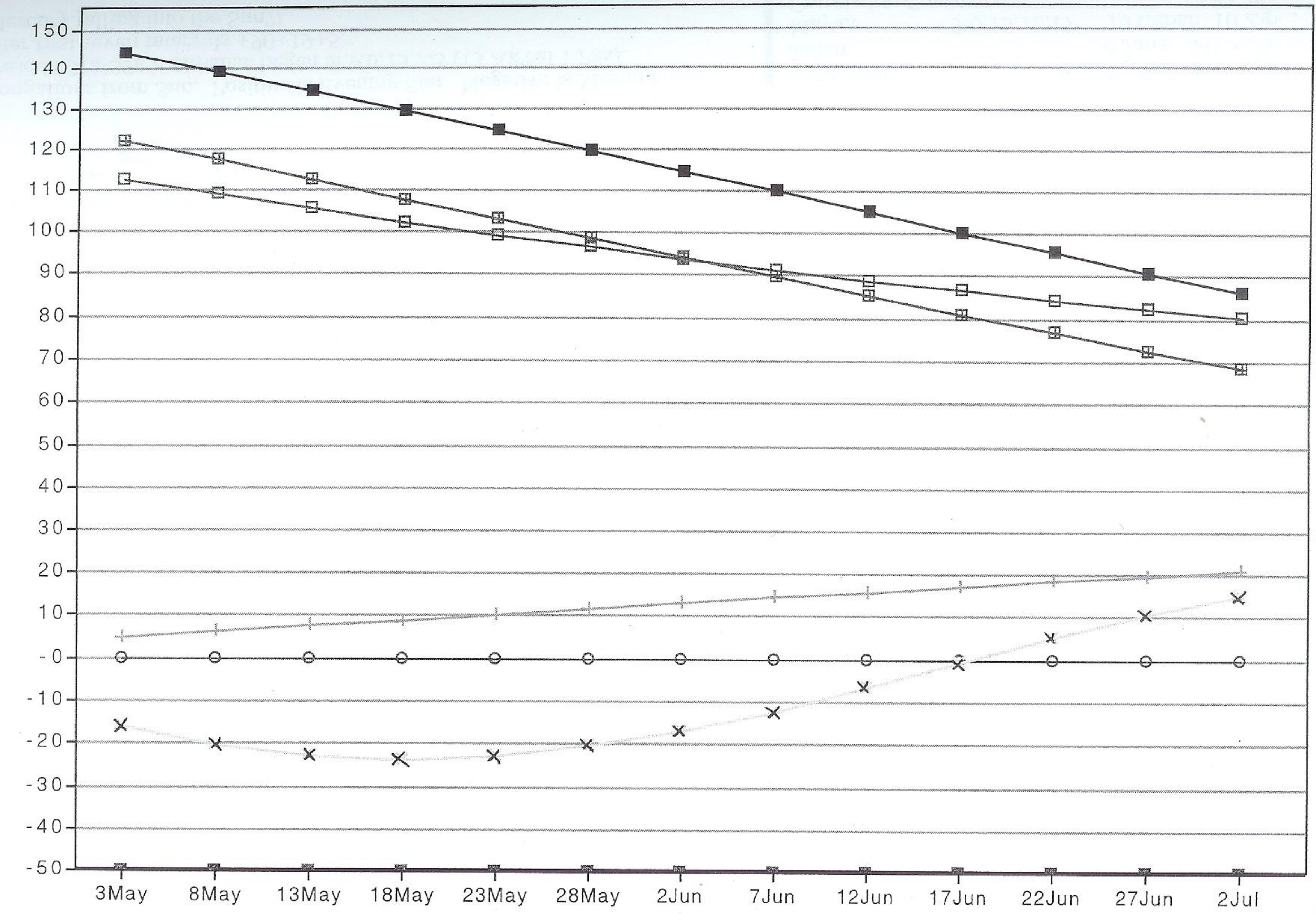
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first four intervals +39+39. Venus about to emerge as evening star.
Jupiter has reached visual second stationary point.

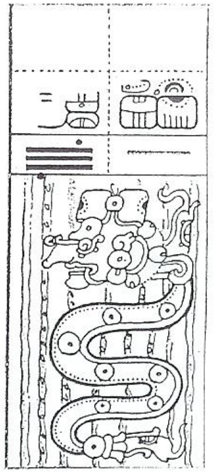
Gregorian		Tues 2 May	451 A.D.
Julian		1 May	451 A.D.
Mayan	9.0.15.11.1	13 Imix	14 Pop
Correlation Constant			584,285



Geocentric Longitudes
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first five intervals +78+12.
Jupiter almost exactly at second stationary point.

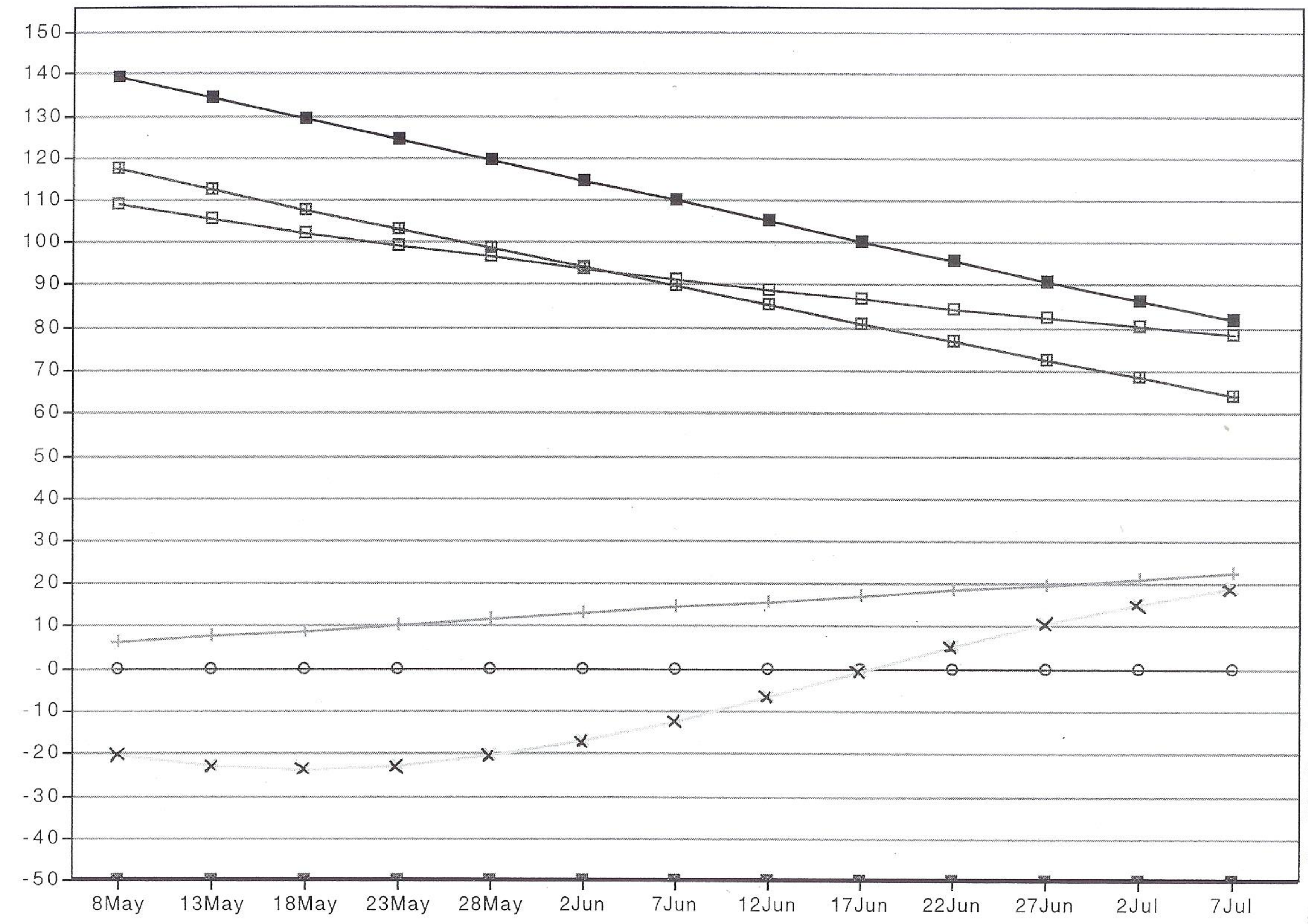
Gregorian		Sun 14 May 451 A.D.
Julian		13 May 451 A.D.
Mayan	9.0.15.11.13	12 Ben 6 Uo
Correlation Constant		584,285

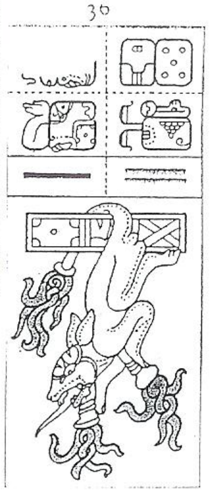




Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first six intervals +90+19.

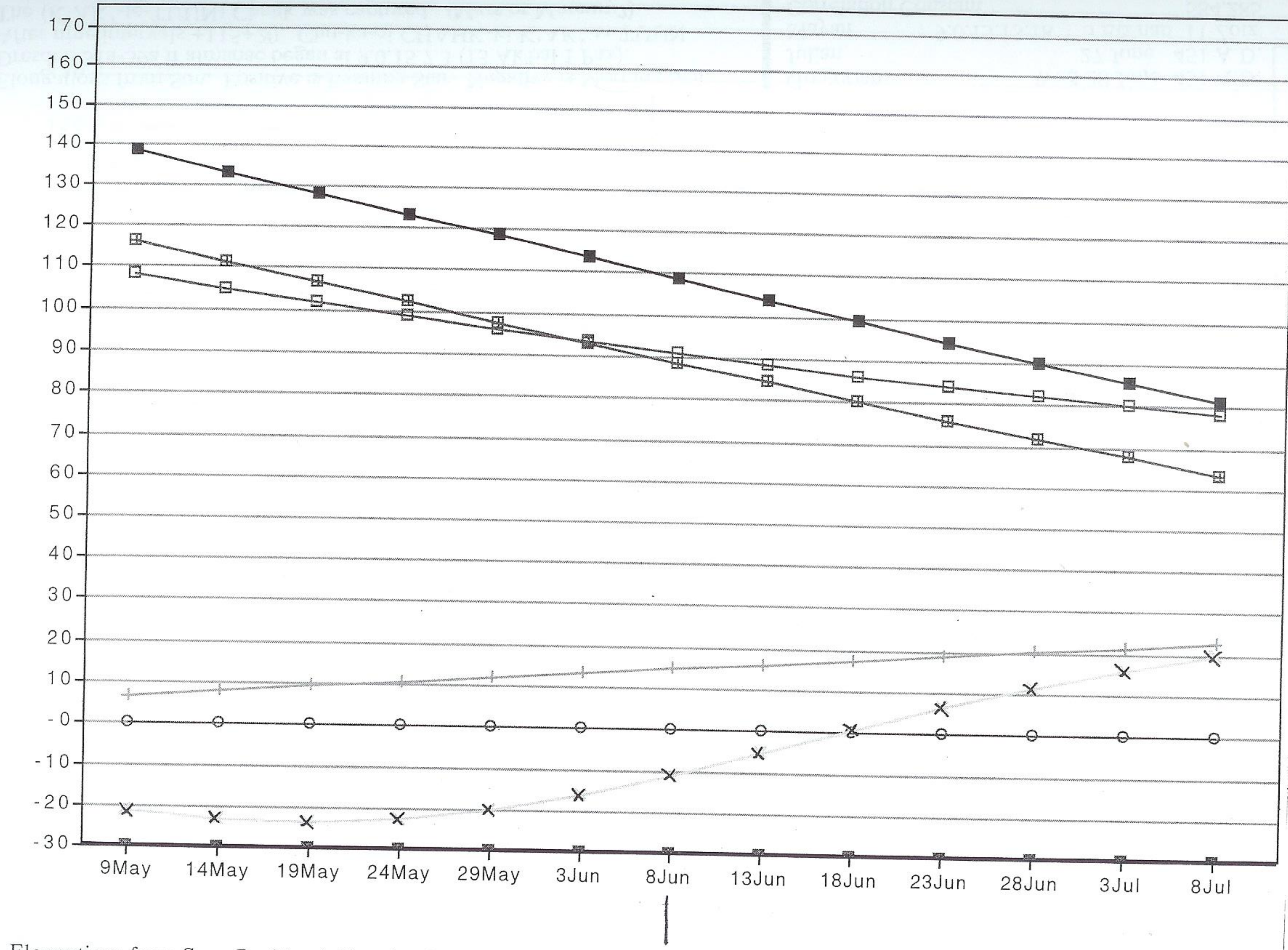
Gregorian		Fri 2 June 451 A.D.
Julian		1 June 451 A.D.
Mayan	9.0.15.12.12	5 Eb 5 Zip
Correlation Constant		584,285

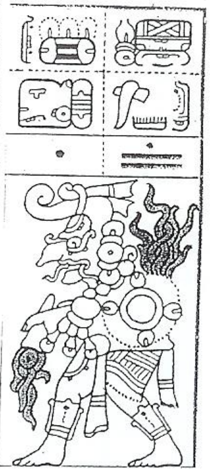




Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first seven intervals +90+19+5.
(Mercury falling into the Sun?)

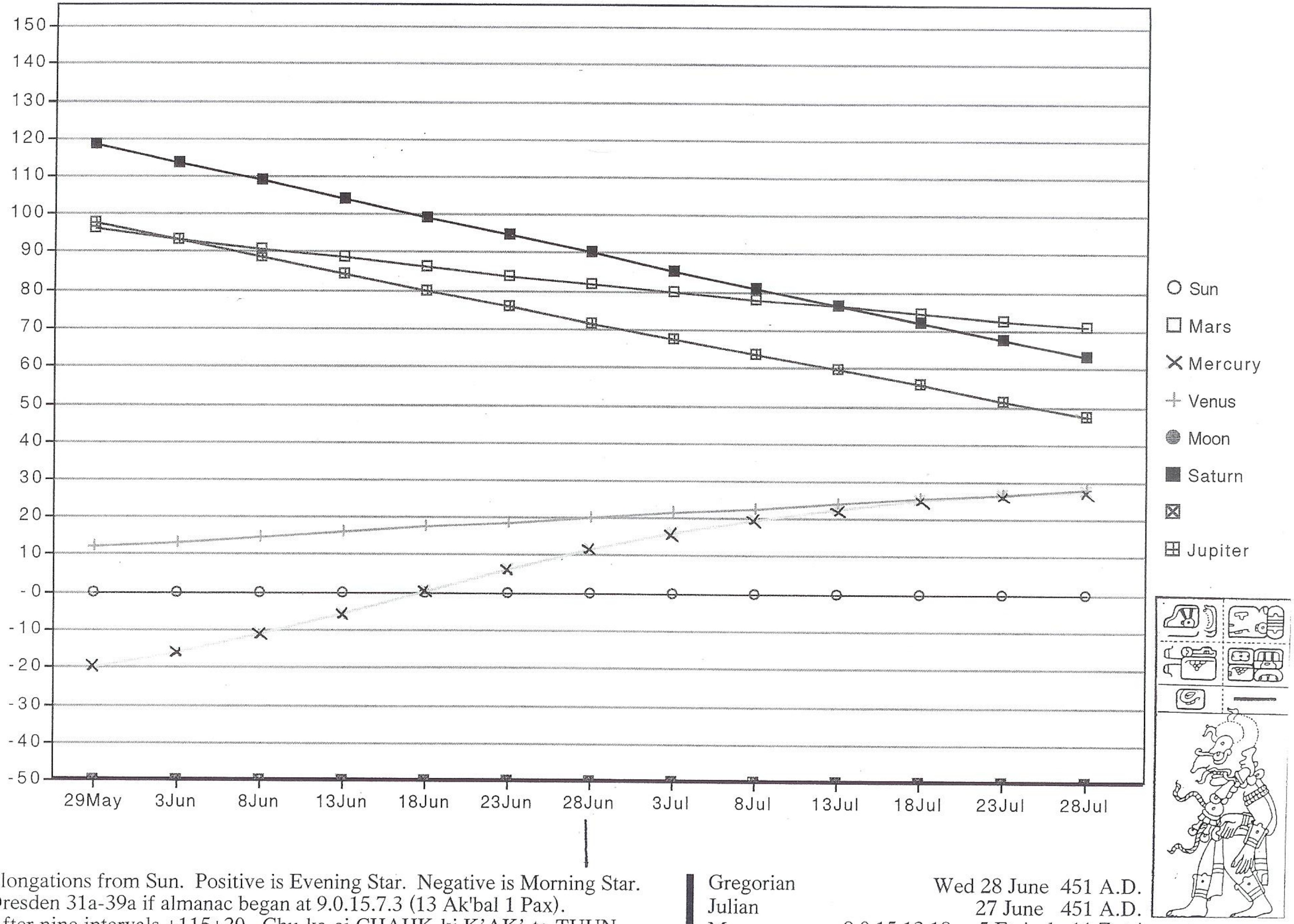
Gregorian		Wed 7 June 451 A.D.
Julian		6 June 451 A.D.
Mayan	9.0.15.12.17	10 Caban 10 Zip
Correlation Constant		584,285





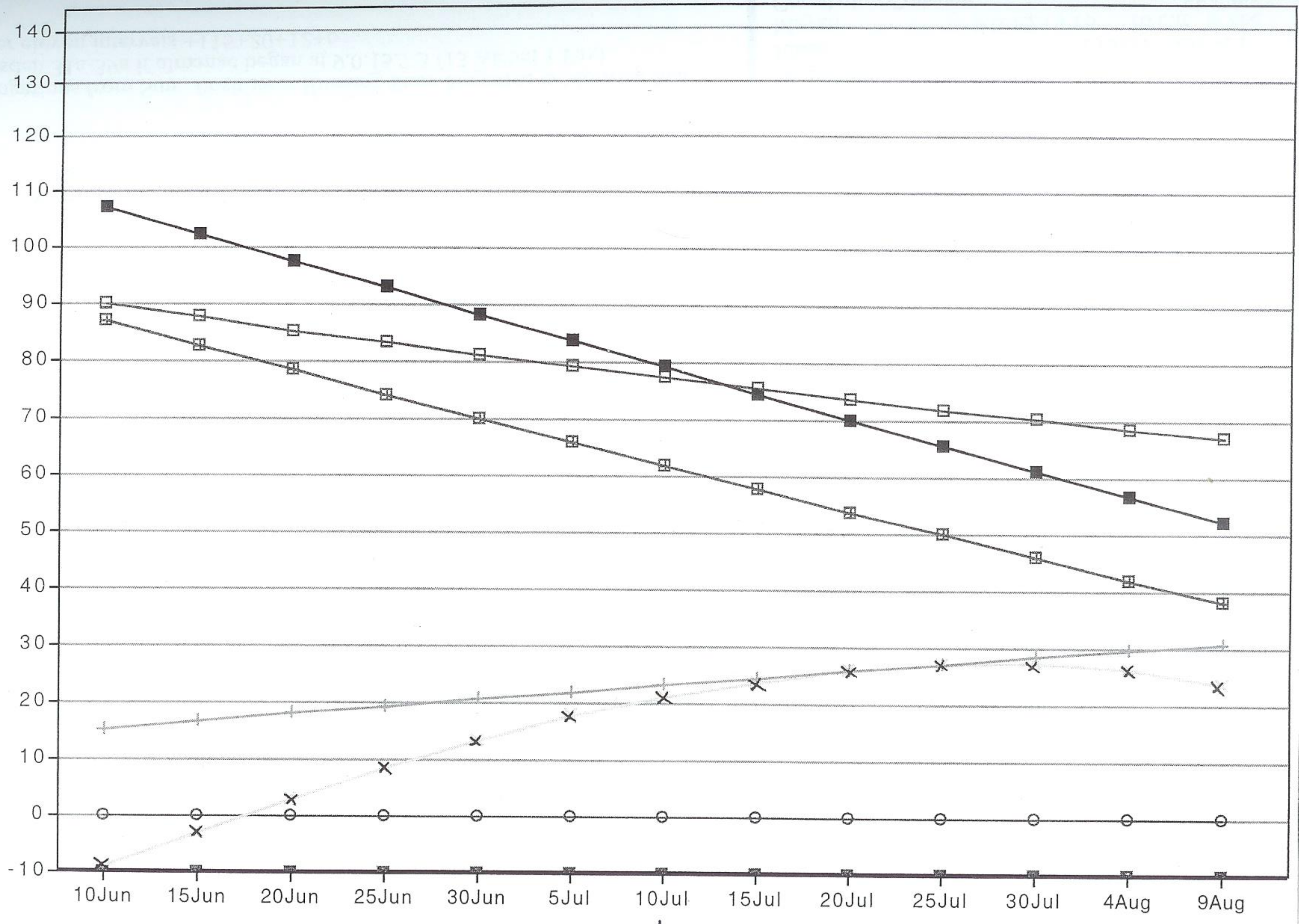
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After first eight intervals +90+25. One of the Chahk-s is shining brightly.
U-tok ti-KA'N-na CHAHK-ki ch'a(a)k-aj

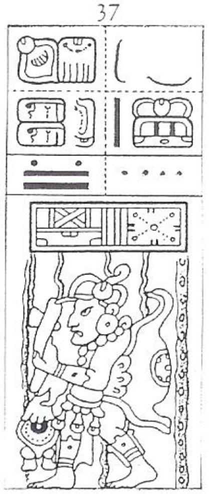
Gregorian		Thur 8 June 451 A.D.
Julian		7 June 451 A.D.
Mayan	9.0.15.12.18	11 Etz'nab 11 Zip
Correlation Constant		584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax). After nine intervals +115+20. Chu-ka-aj CHAHK-ki K'AK'-te-TUUN The (K'AK'-te-TUUN) Chahk was captured. (Mars or Mercury?)

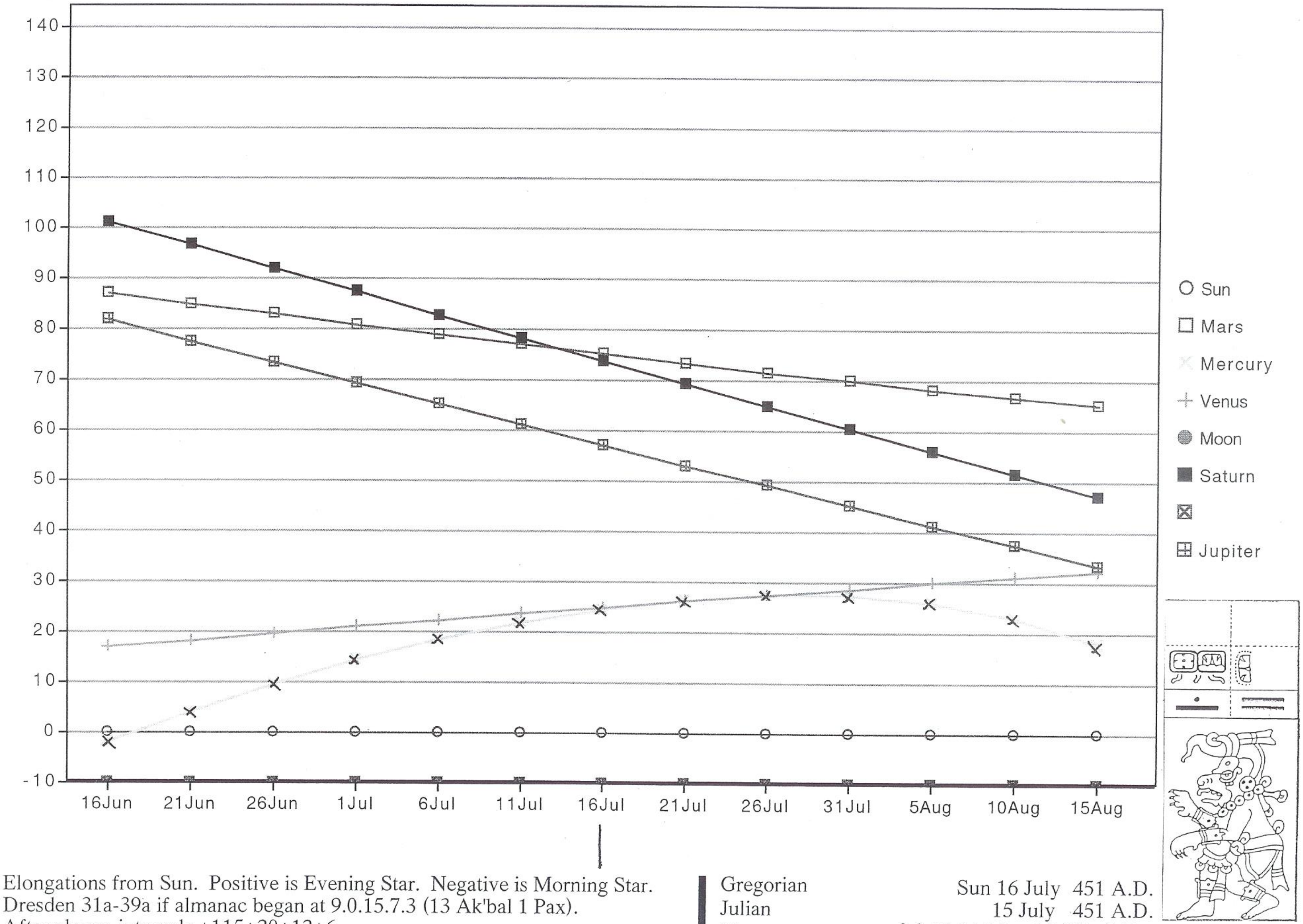
Gregorian		Wed 28 June 451 A.D.
Julian		27 June 451 A.D.
Mayan	9.0.15.13.18	5 Etz'nab 11 Zotz'
Correlation Constant		584,285





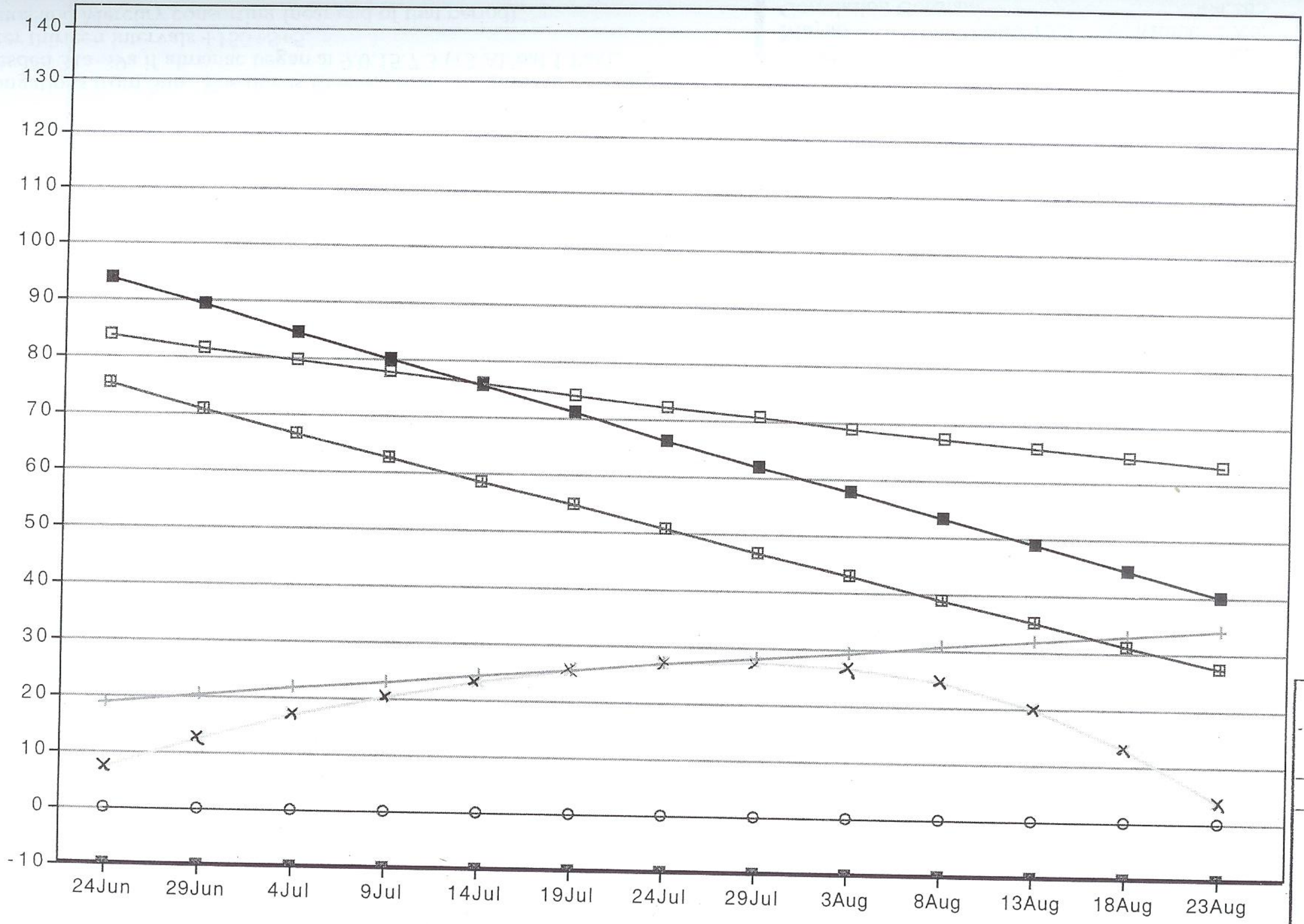
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After ten intervals +115+20+12.

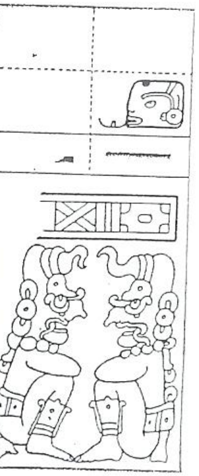
Gregorian	Mon 10 July	451 A.D.
Julian	9 July	451 A.D.
Mayan	9.0.15.14.10	4 Oc 3 Zec
Correlation Constant		584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After eleven intervals +115+20+12+6.

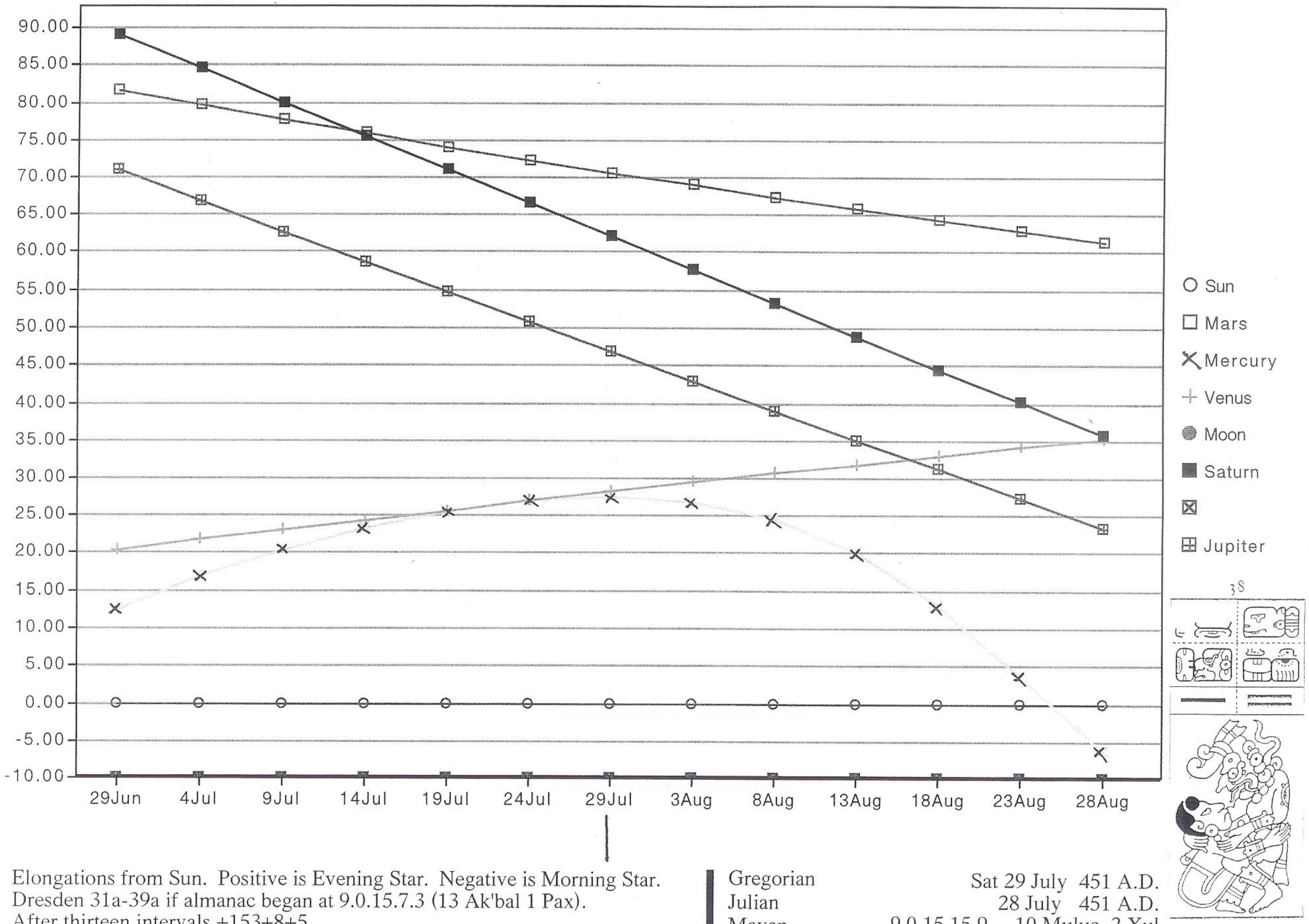
Gregorian		Sun 16 July 451 A.D.
Julian		15 July 451 A.D.
Mayan	9.0.15.14.16	10 Cib 9 Zec
Correlation Constant		584,285





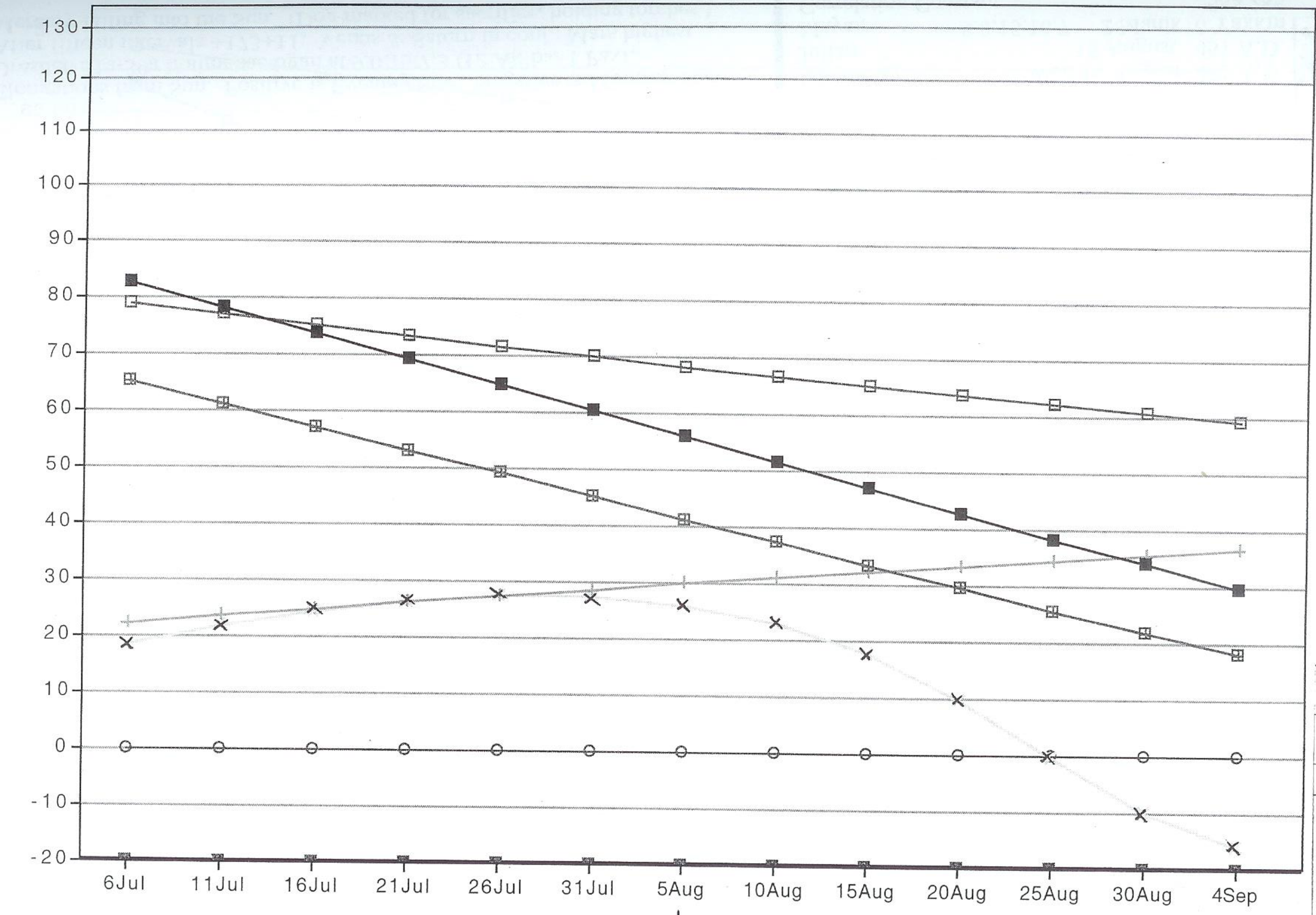
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden 31a-39a if almanac began at 9.0.15.7.3 (12 Ak'bal 1 Pax). After twelve intervals +153+8. Jupiter and Saturn facing each other some 16° apart? (Or conceivably ? Venus and Mercury ? consorting?)

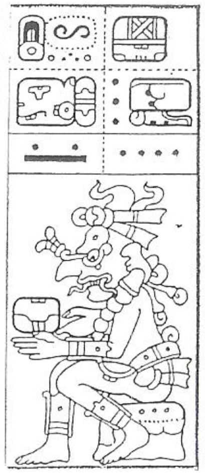
Gregorian	Mon 24 July 451 A.D.
Julian	23 July 451 A.D.
Mayan	9.0.15.15.4 5 Kan 17 Zec
Correlation Constant	584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After thirteen intervals +153+8+5.
Venus and Mercury consorting (near end of that period).

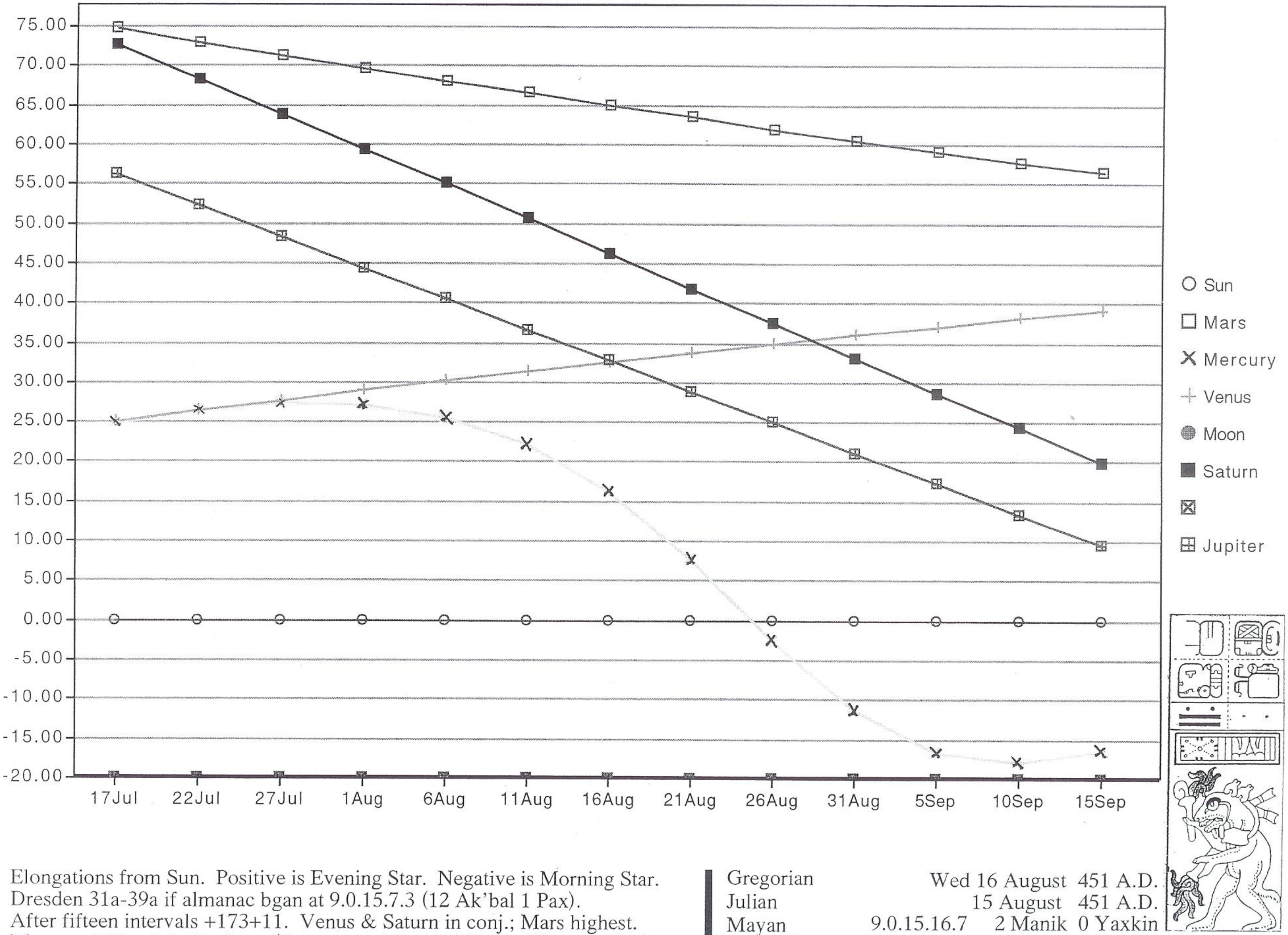
Gregorian		Sat 29 July	451 A.D.
Julian		28 July	451 A.D.
Mayan	9.0.15.15.9	10 Muluc	2 Xul
Correlation Constant			584,285





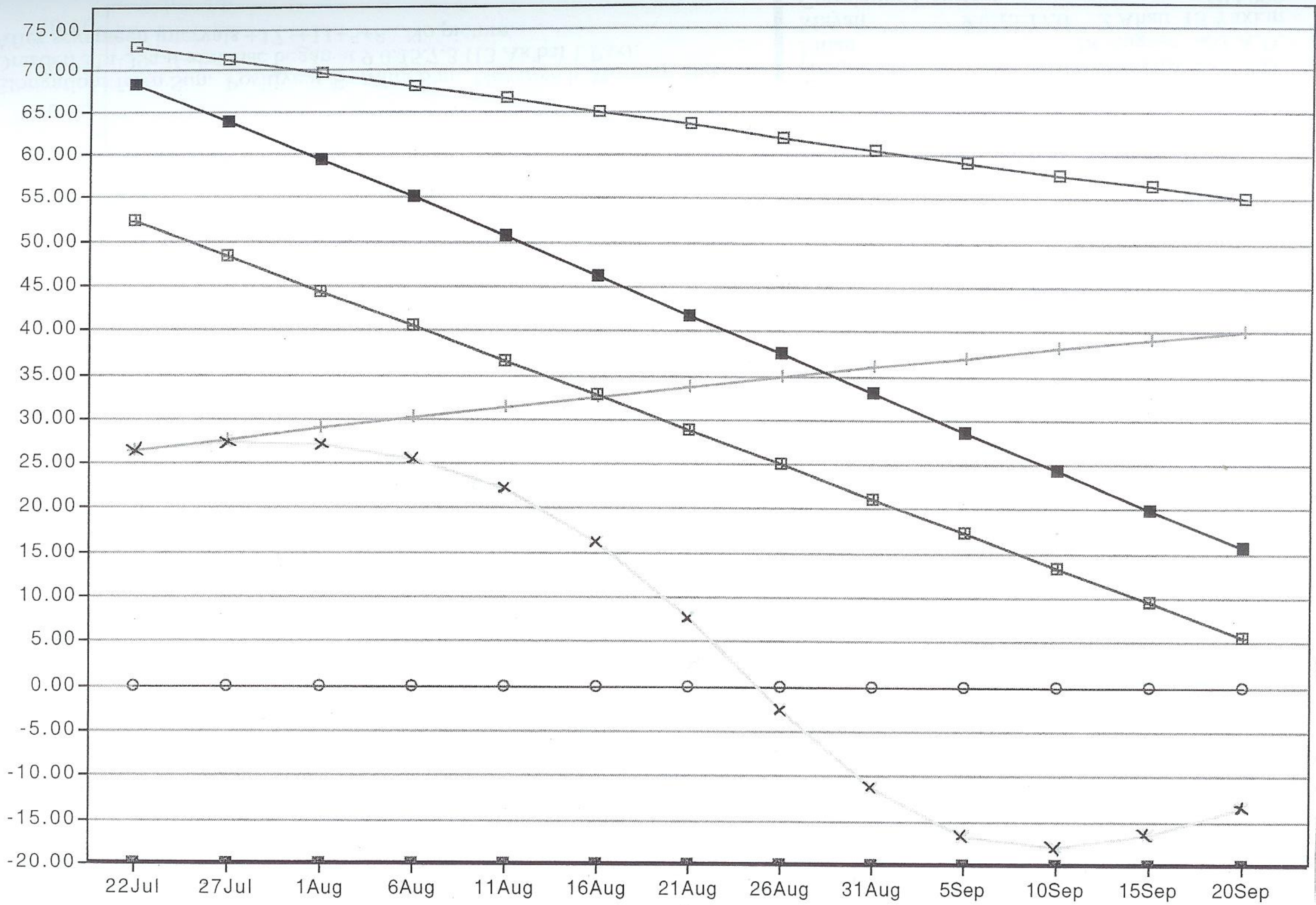
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After fourteen intervals +153+8+5+7.

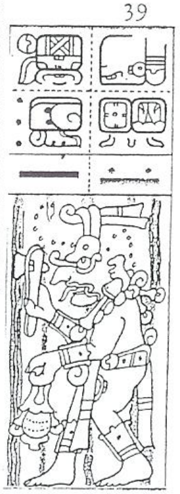
Gregorian	Sat 5 August 451 A.D.
Julian	4 August 451 A.D.
Mayan	9.0.15.15.16 4 Cib 9 Xul
Correlation Constant	584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac bgan at 9.0.15.7.3 (12 Ak'bal 1 Pax).
After fifteen intervals +173+11. Venus & Saturn in conj.; Mars highest.
Mercury falling into the Sun. (Dog marked for sacrifice, holding torches.)

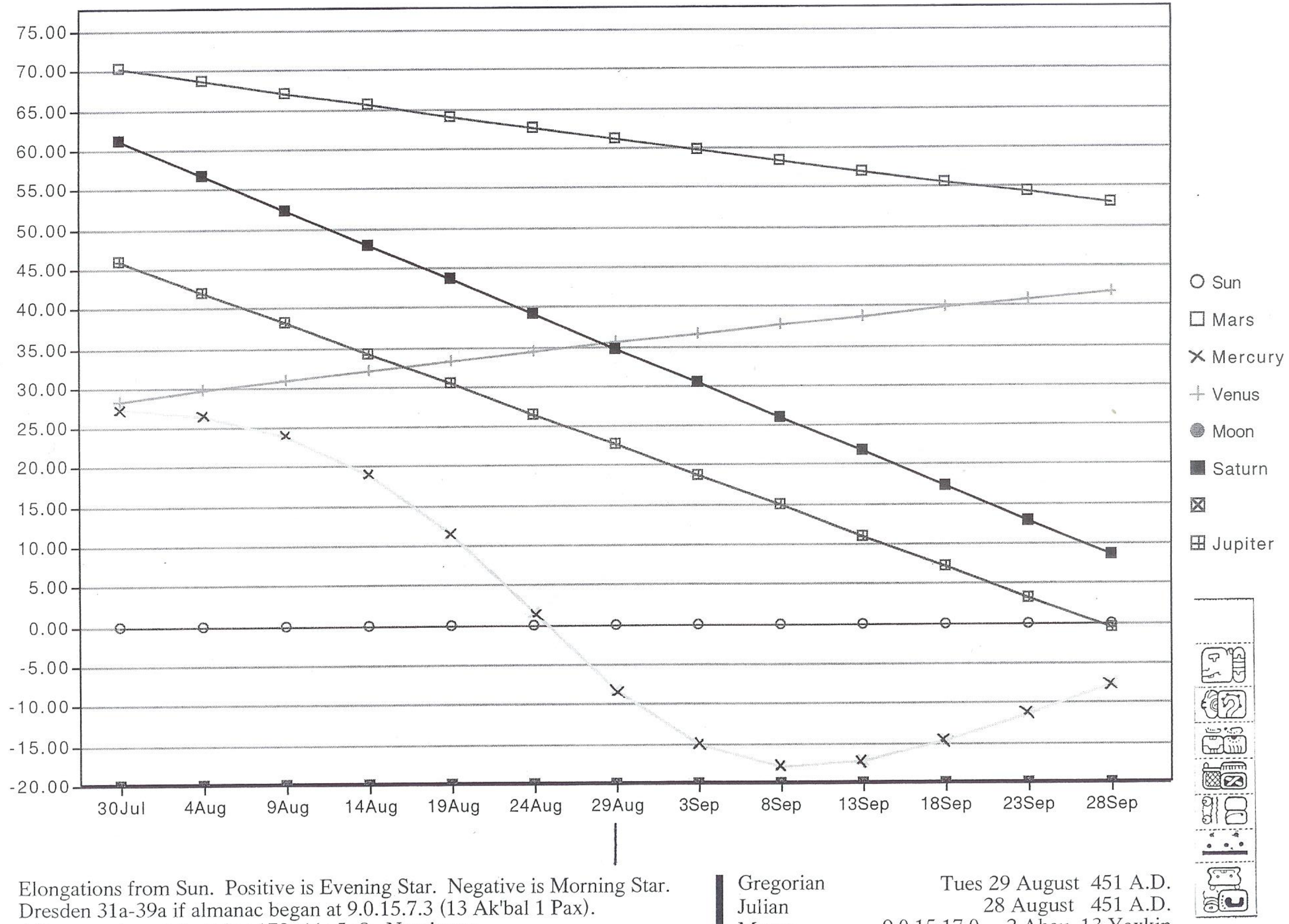
Gregorian		Wed 16 August	451 A.D.
Julian		15 August	451 A.D.
Mayan	9.0.15.16.7	2 Manik	0 Yaxkin
Correlation Constant			584,285





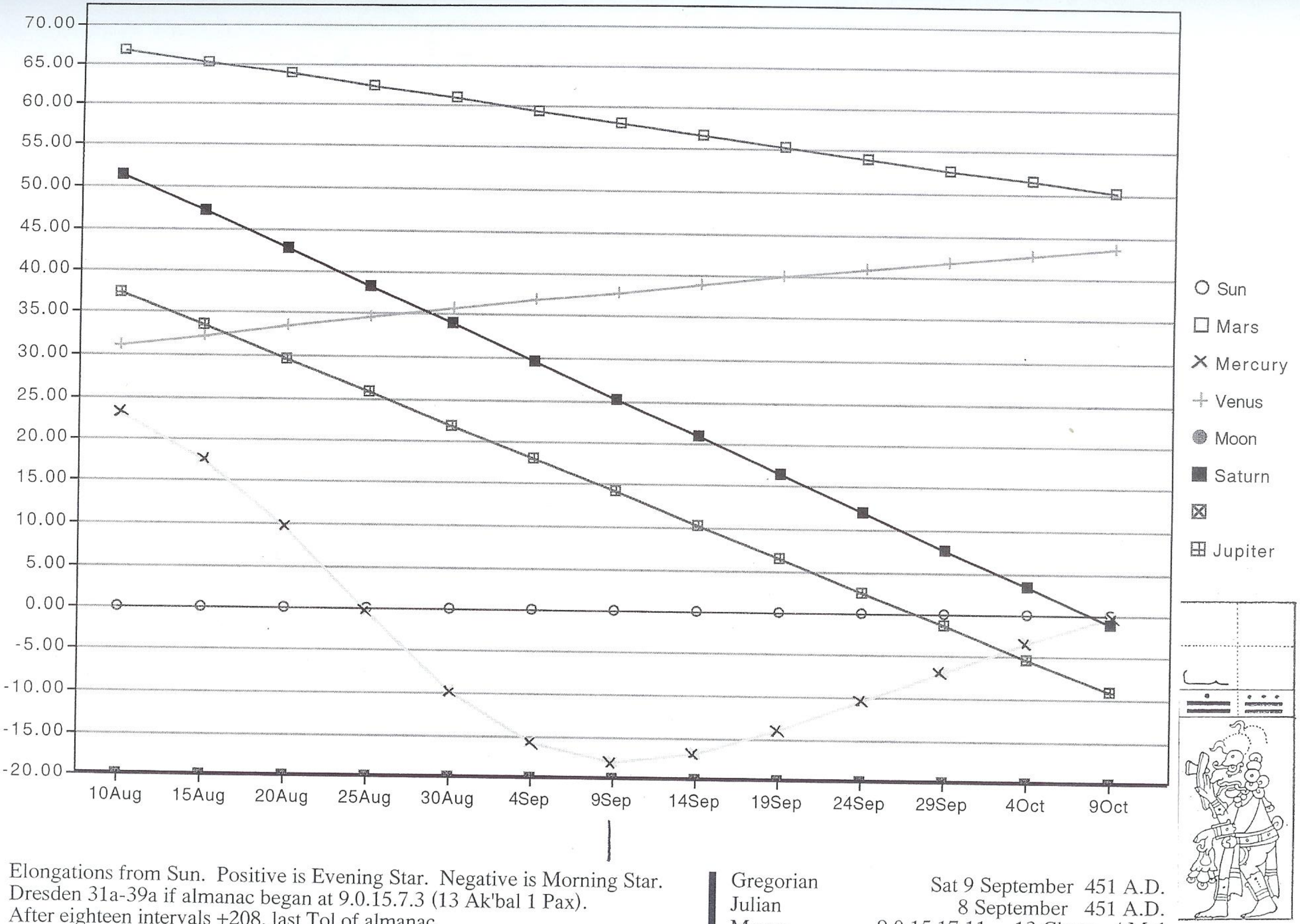
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After sixteen intervals +173+11+5

Gregorian	Mon 21 August		451 A.D.
Julian	20 August		451 A.D.
Mayan	9.0.15.16.12	7 Eb	5 Yaxkin
Correlation Constant			584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After seventeen intervals +173+11+5+8. No picture.

Gregorian		Tues 29 August 451 A.D.
Julian		28 August 451 A.D.
Mayan	9.0.15.17.0	2 Ahau 13 Yaxkin
Correlation Constant		584,285



Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 31a-39a if almanac began at 9.0.15.7.3 (13 Ak'bal 1 Pax).
After eighteen intervals +208, last Tol of almanac.

Gregorian	Sat 9 September	451 A.D.
Julian	8 September	451 A.D.
Mayan	9.0.15.17.11	13 Chuen 4 Mol
Correlation Constant		584,285

Appendix D.

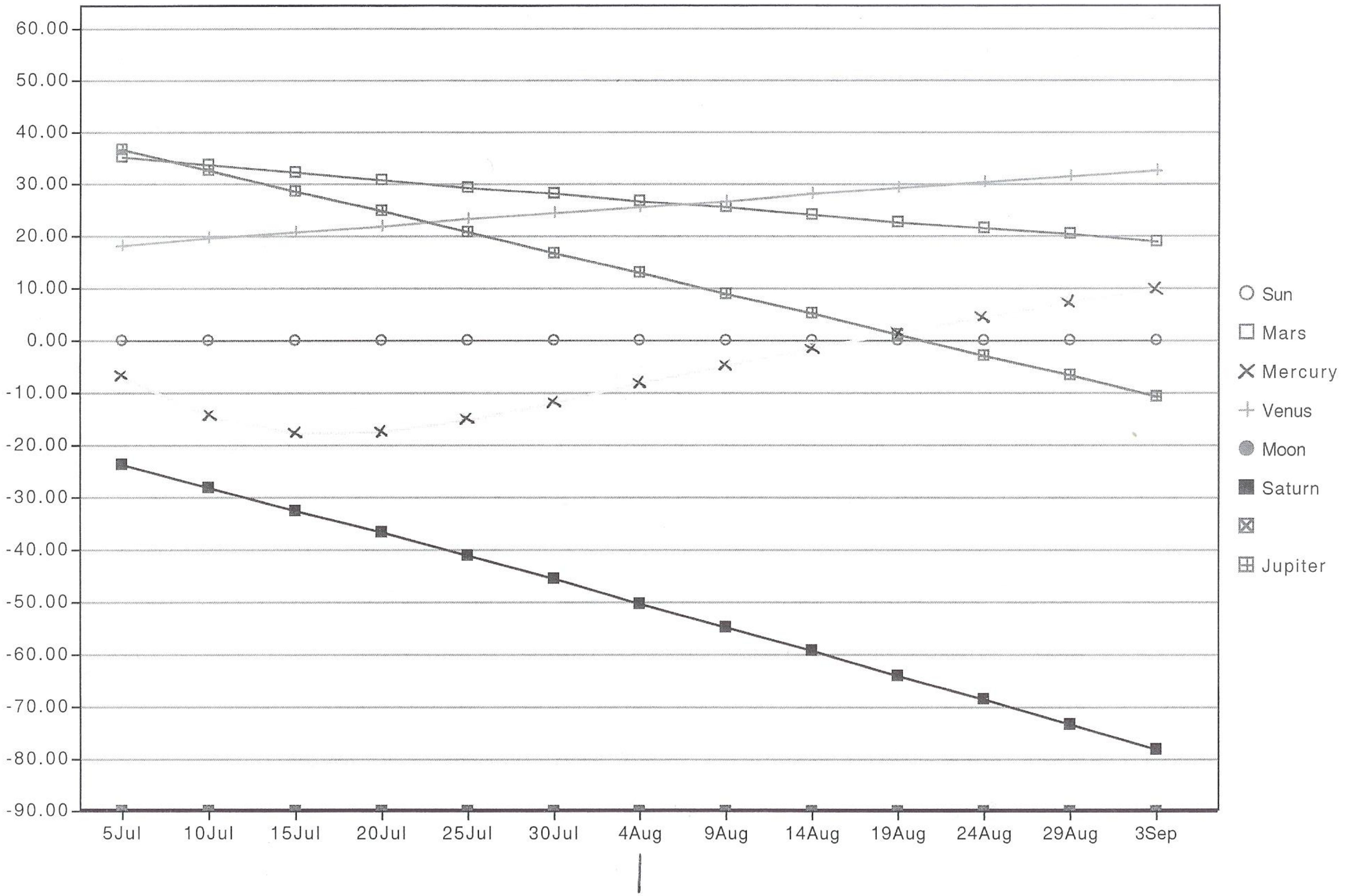
The 20 Stations of the Dresden Codex Venus Table

Starting the Table at

10.15.4.2.0 1 Ajaw 18 Uo 1129 December 6 (Julian)

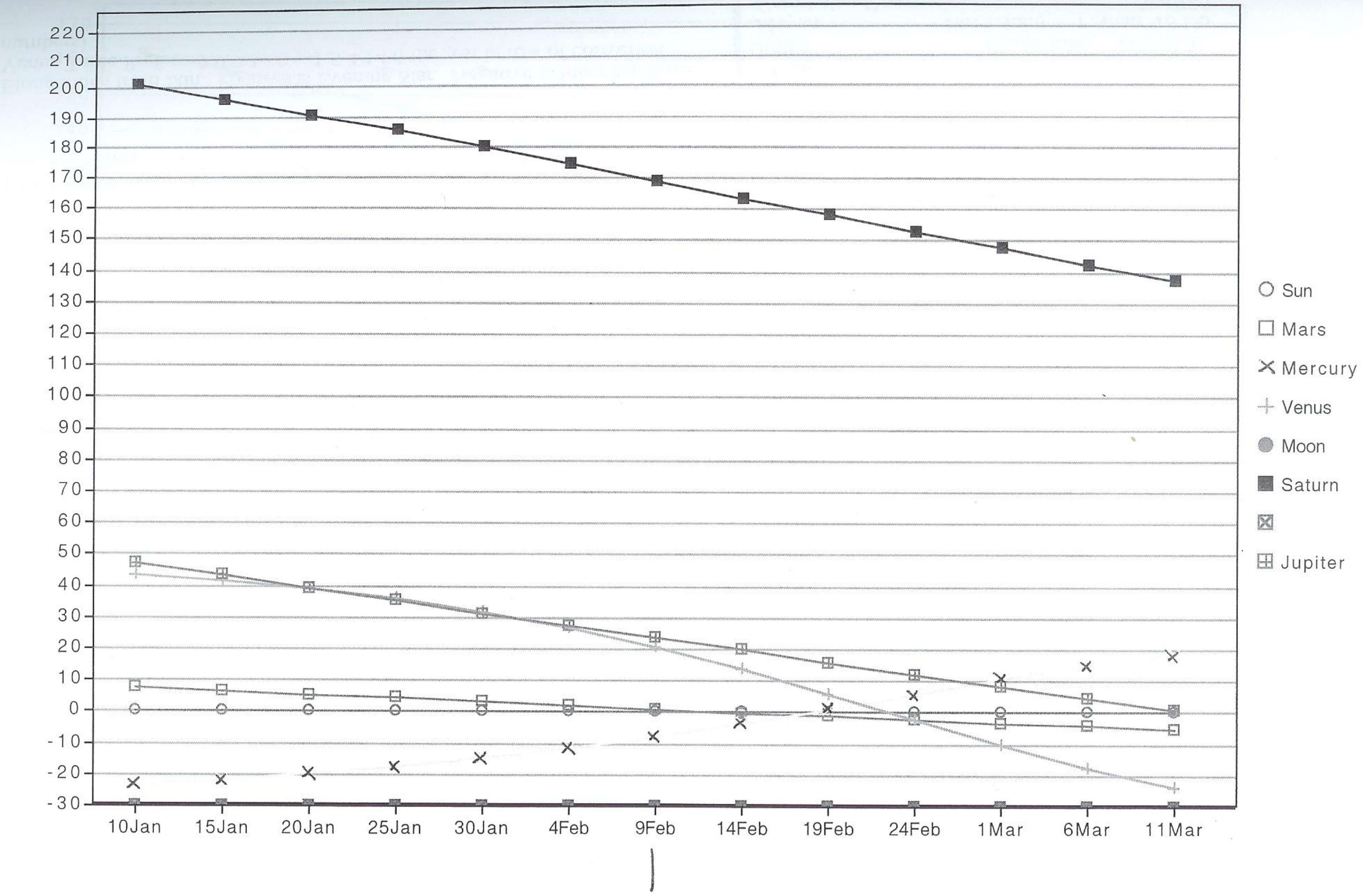
The first three graphs give the Ring Number 6.2.0 before the beginning of the current era,
the date 9.9.9.16.0, 1 Ajaw 18 K'ayab reached by the Long Reckoning,
and the date 10.15.4.2.0, 1 Ajaw 18 Uo reached by adding the large number 1.5.4.14.0 found at
the left margin of the multiplication table in the row for corrections.
The text references to planets work better for this starting date than for any other 1 Ajaw base
date which has so far been compared with it.
This is one of the standard base dates often referred to in the literature. However, oddly, the set
of Haab dates appropriate to this base date are not one of the three sets explicit in the Table itself.
Those must go with other startiing dates.

After the graphs for the 20 basic stations of the Venus Table, there follow another set of graphs
for the additional dates which seem to be reached by distance numbers specified in the texts of
length 8 glyphs which occur between the lower two pictures of each page.



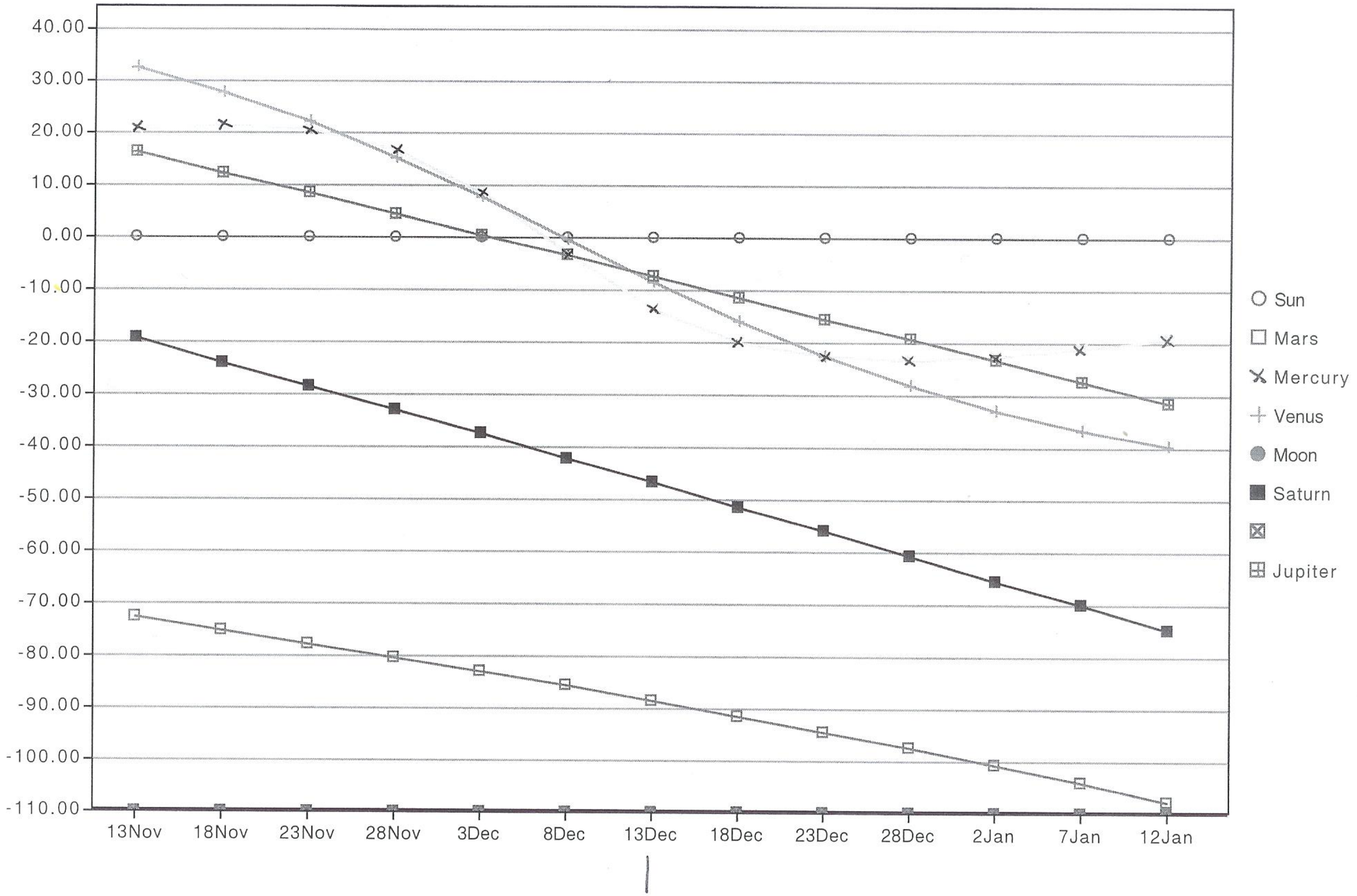
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Dresden Venus Table. Ring Number 6.2.0 before the beginning of the era. Venus was rising as evening star, Saturn as morning star.

Gregorian	Mon 4 August	3120 B.C.
Julian	30 August	3120 B.C.
Mayan	19.19.19.19.13.16.0 1 Ahau	18 Kayab
Correlation Constant		584,285



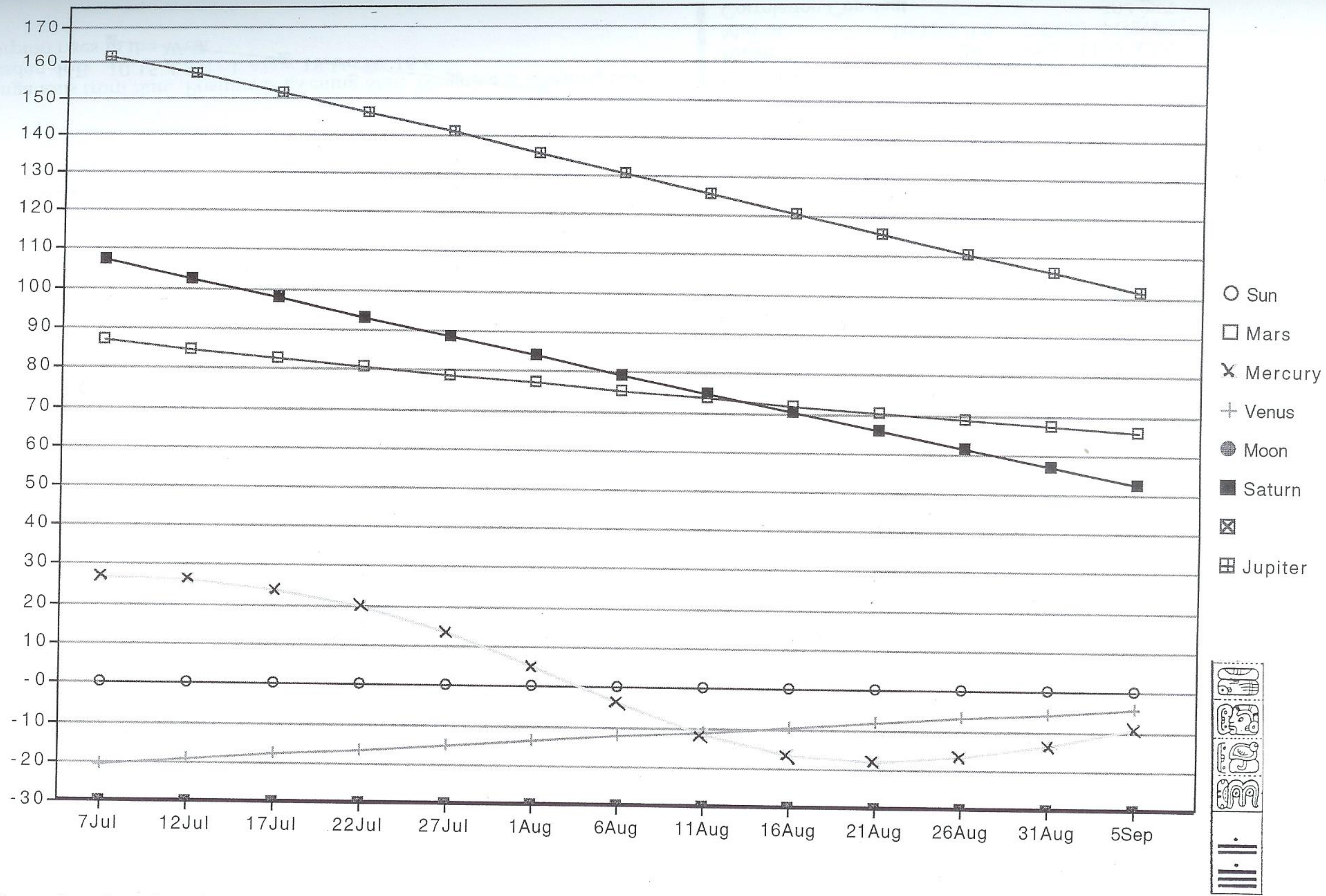
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden Venus Table. Date determined by Ring Number and Long Reckoning.
Venus and Jupiter both evening stars descending.
Saturn shortly after mid-retrograde.

Gregorian		Sun 9 February	623 A.D.
Julian		6 February	623 A.D.
Mayan	9.9.9.16.0	1 Ahau	18 Kayab
Correlation Constant			584,285



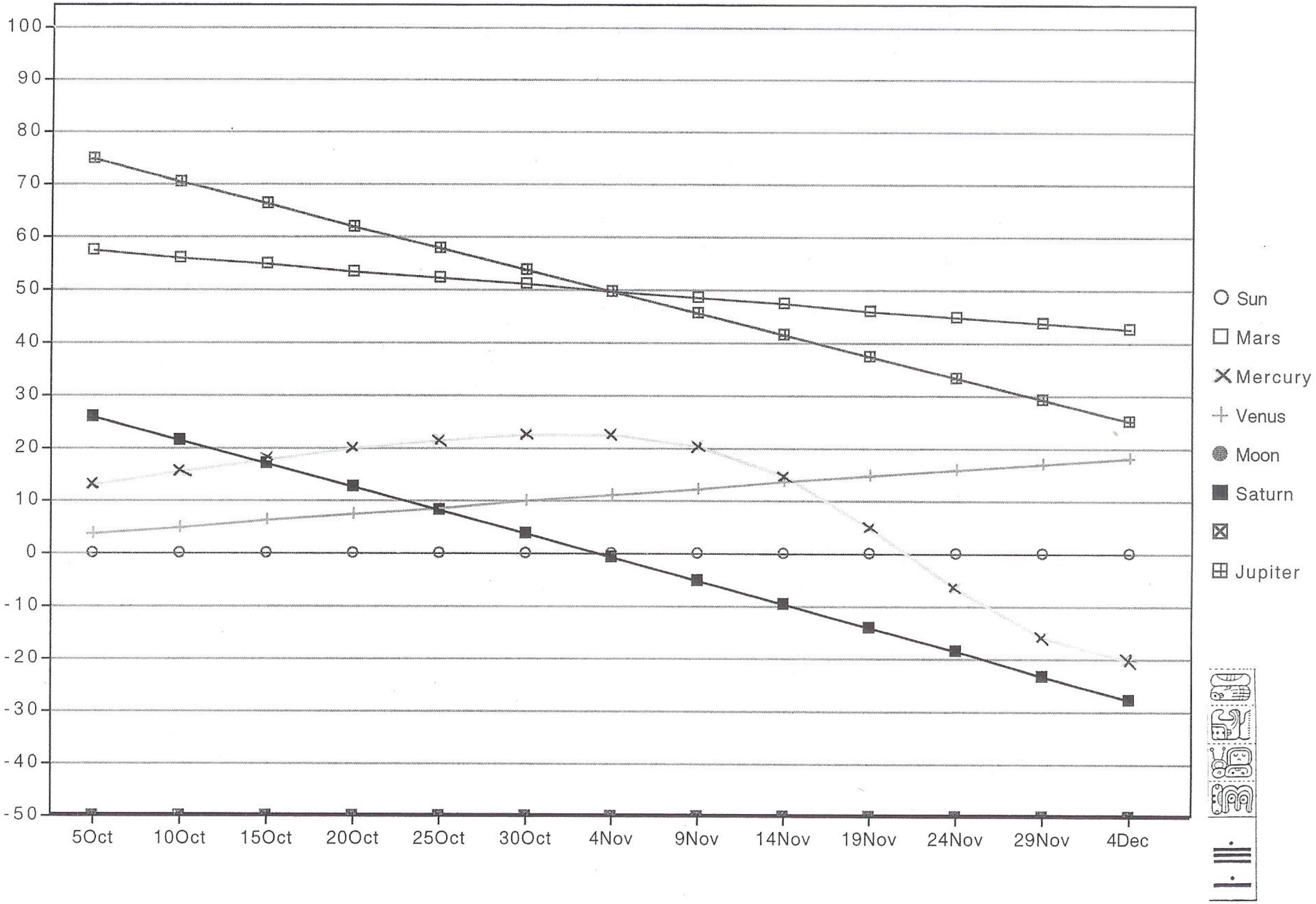
Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Venus Table Preface 9.9.9.16.0 + 1.5.4.14.0 (largest in row of correction numbers)

Gregorian	Fri 13 December 1129 A.D.
Julian	6 December 1129 A.D.
Mayan	10.15.4.2.0 1 Ahau 18 Uo
Correlation Constant	584,285



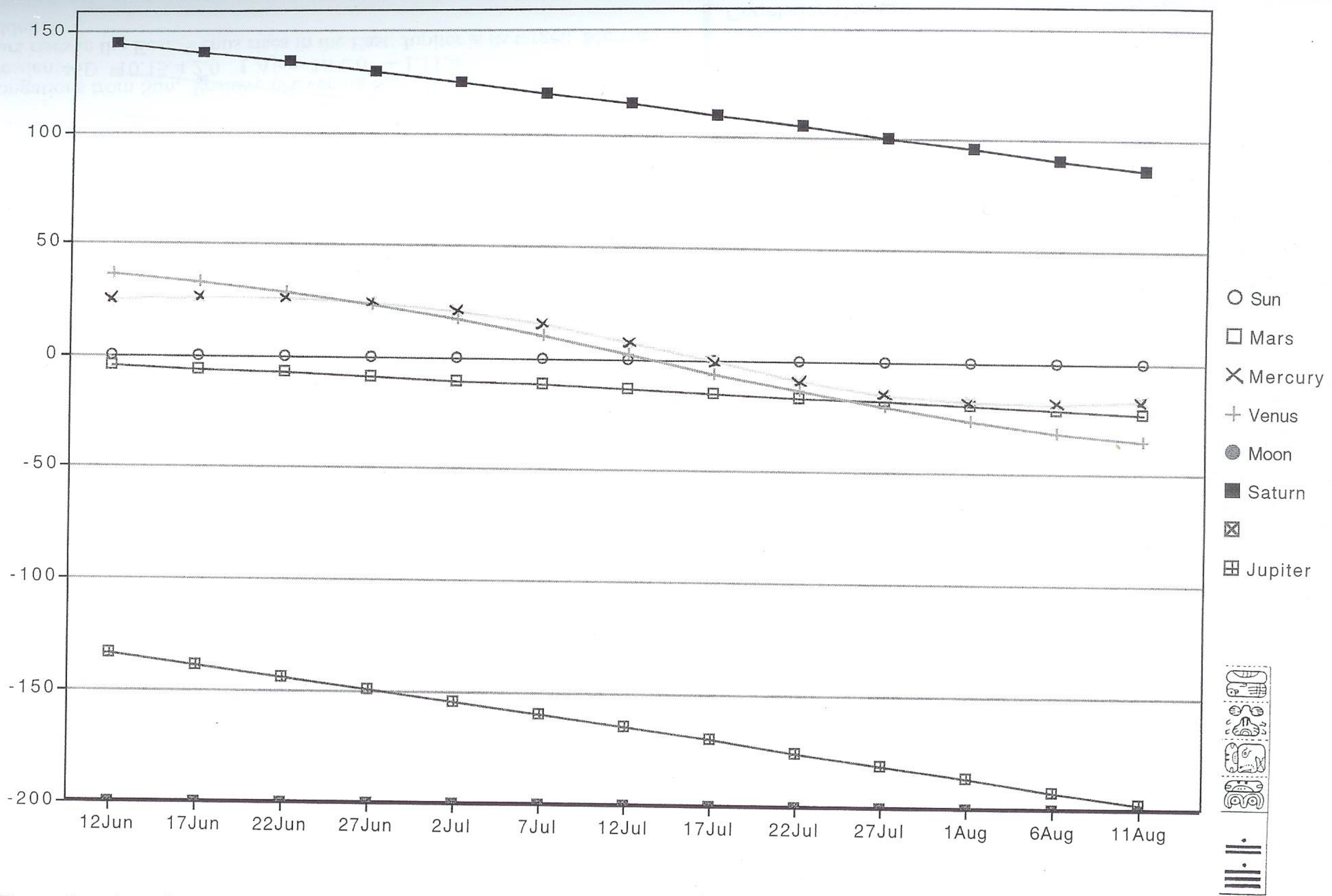
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 46A 10.15.4.2.0 1 Ajaw 18 Uo + 11.16
u-lum rises in the North

Gregorian		Wed 6 August	1130 A.D.
Julian		30 July	1130 A.D.
Mayan	10.15.4.13.16	3 Cib	14 Kankin
Correlation Constant			584,285



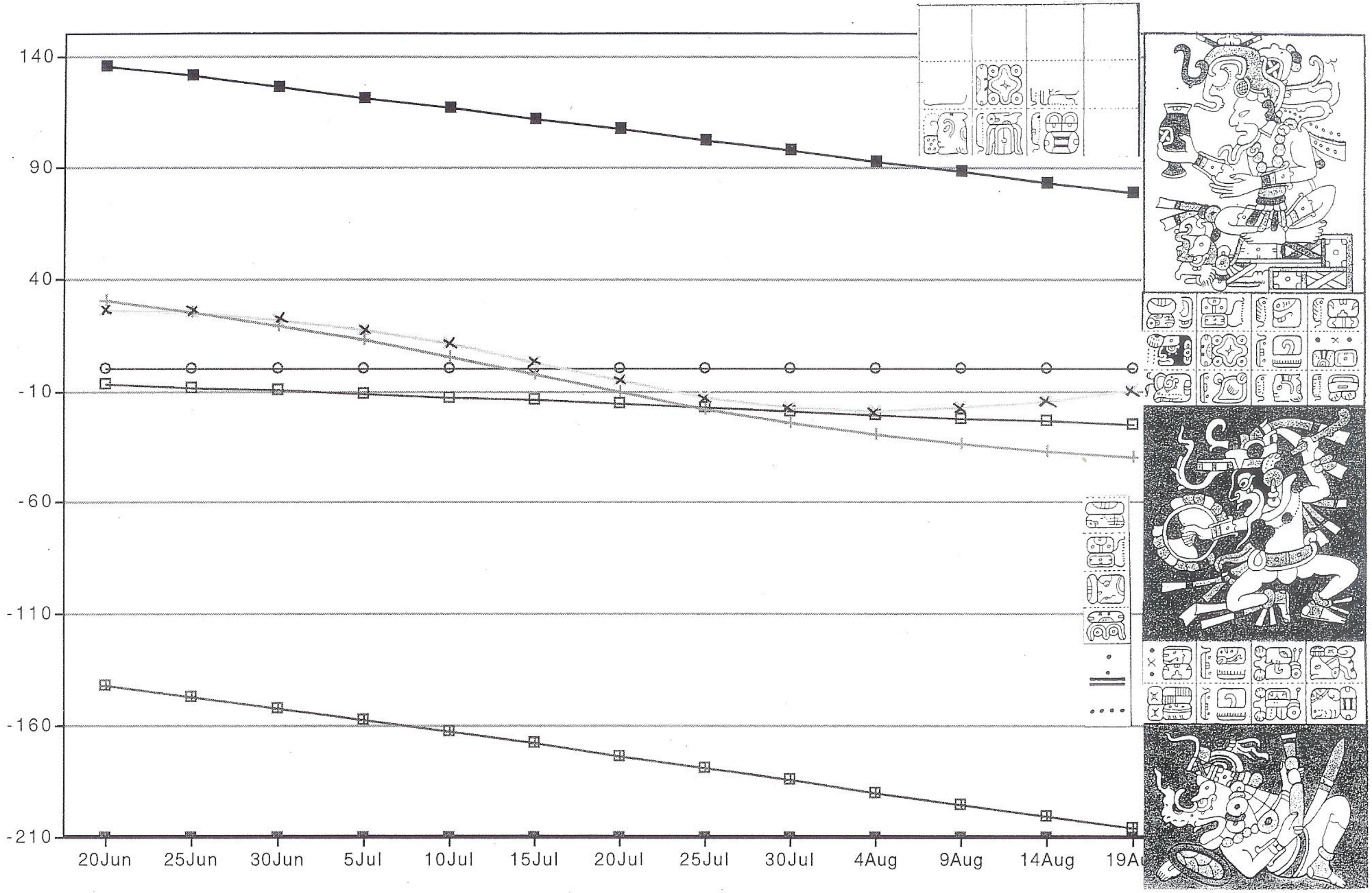
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 46B 10.15.4.2.0 1 Ajaw 18 Uo + 16.6
Scorpion rises in the West

Gregorian	Tues 4 November 1130 A.D.
Julian	28 October 1130 A.D.
Mayan	10.15.5.0.6 2 Cimi 4 Uayeb
Correlation Constant	584,285



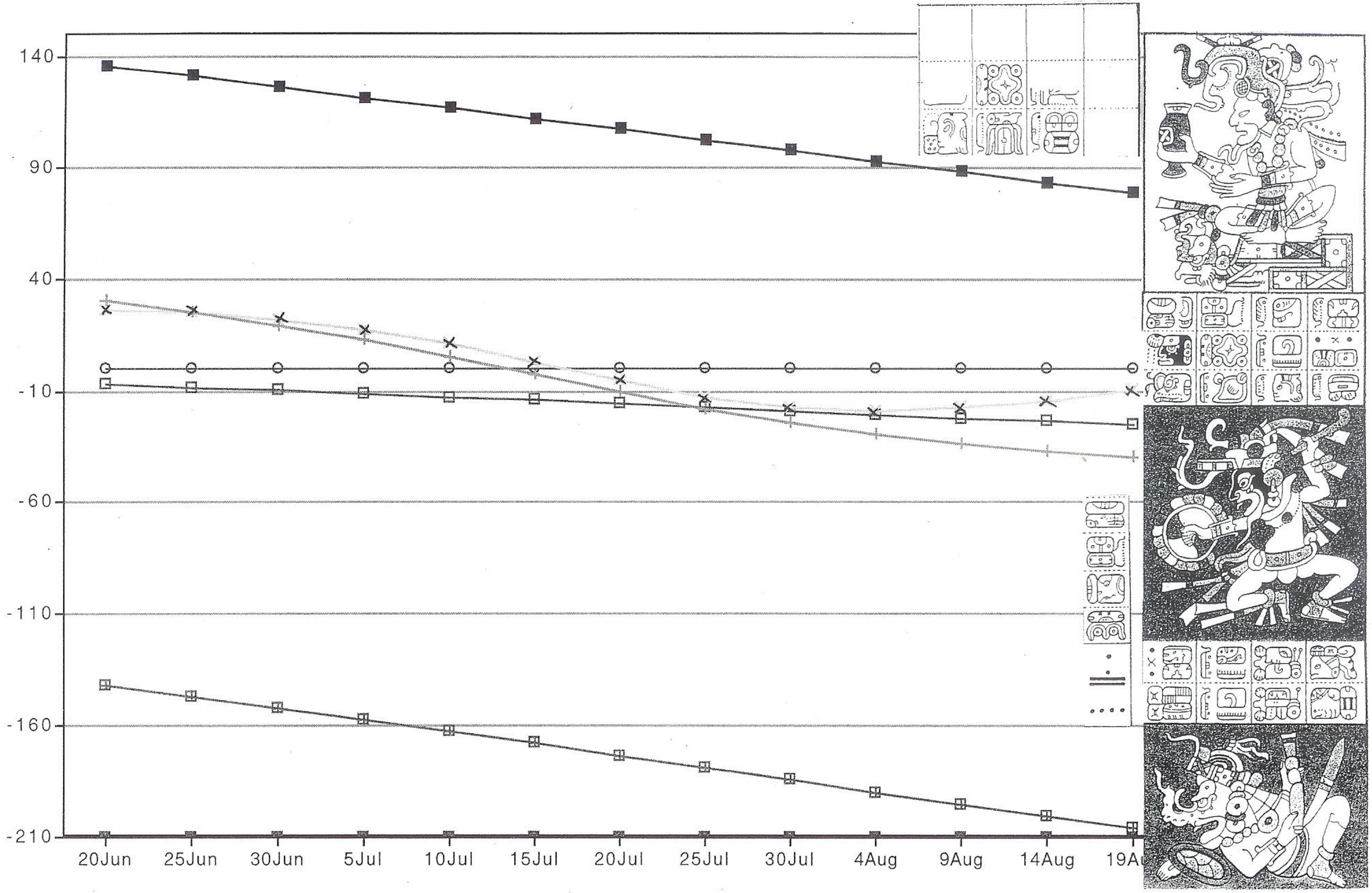
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 46C 10.15.4.2.0 1 Ajaw 18 Uo + 1.10.16
?Mars rises in the "South" (near the Sun).

Gregorian		Sun 12 July 1131 A.D.
Julian		5 July 1131 A.D.
Mayan	10.15.5.12.16	5 Cib 9 Mac
Correlation Constant		584,285



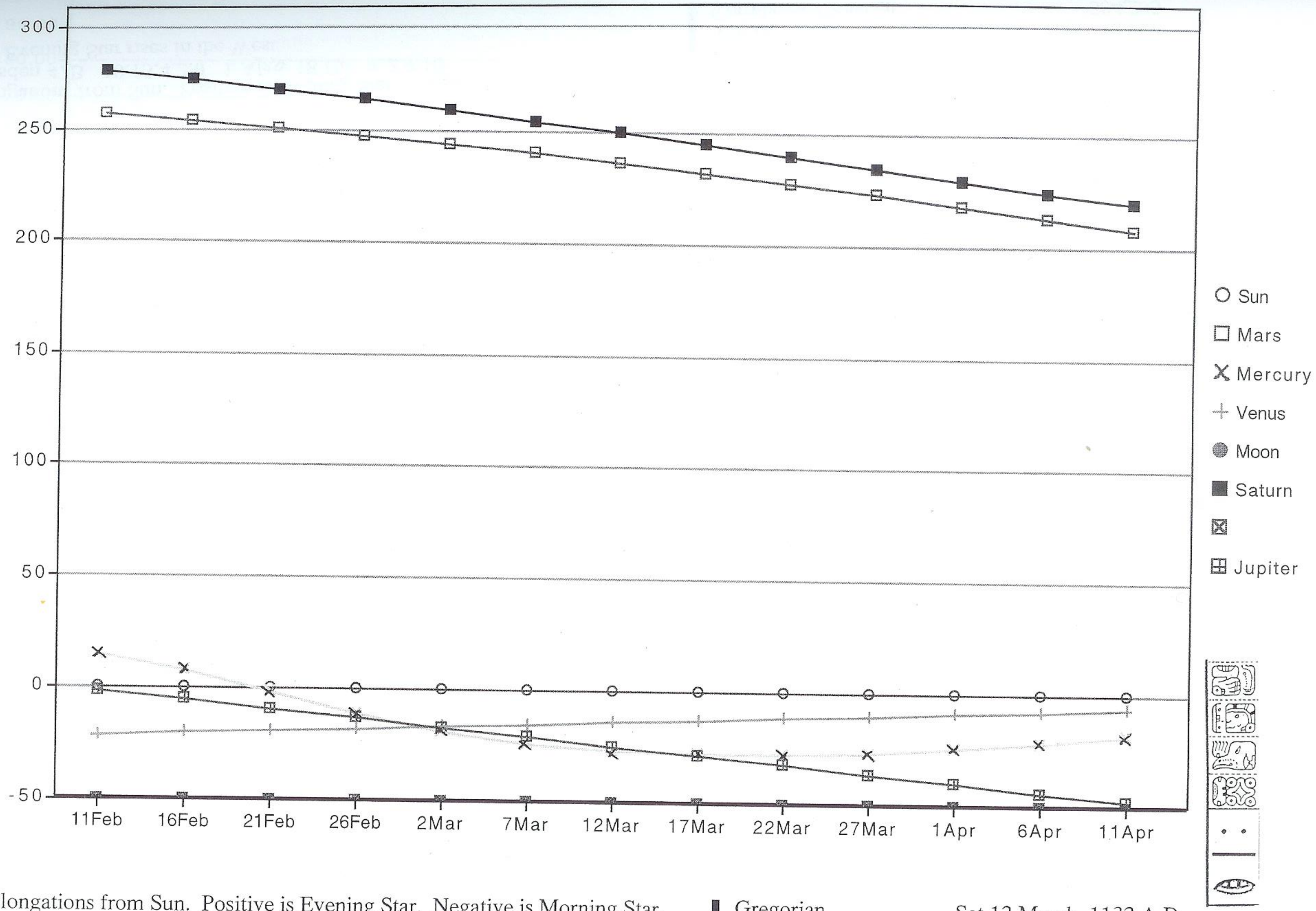
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 46D 10.15.4.2.0 1 Ajaw 18 Uo + 1.11.4
Mars rises in the East; Venus rises in the East; Jupiter is its target; Mercury is hidden

Gregorian		Mon 20 July 1131 A.D.
Julian		13 July 1131 A.D.
Mayan	10.15.5.13.4	13 Kan 17 Mac
Correlation Constant		584,285



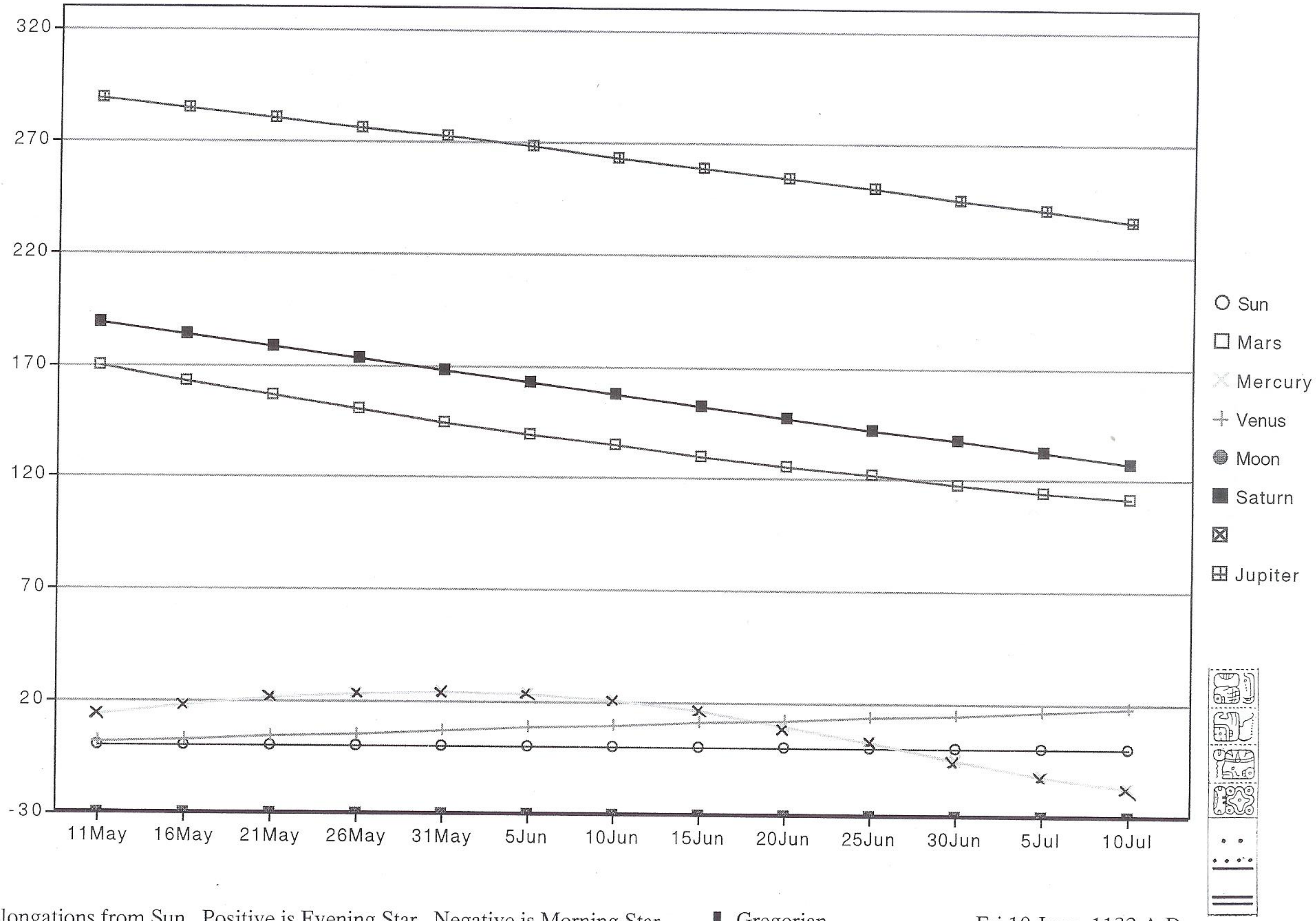
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 46D 10.15.4.2.0 1 Ajaw 18 Uo + 1.11.4
Mars rises in the East; Venus rises in the East; Jupiter is its target; Mercury is hidden

Gregorian		Mon 20 July 1131 A.D.
Julian		13 July 1131 A.D.
Mayan	10.15.5.13.4	13 Kan 17 Mac
Correlation Constant		584,285



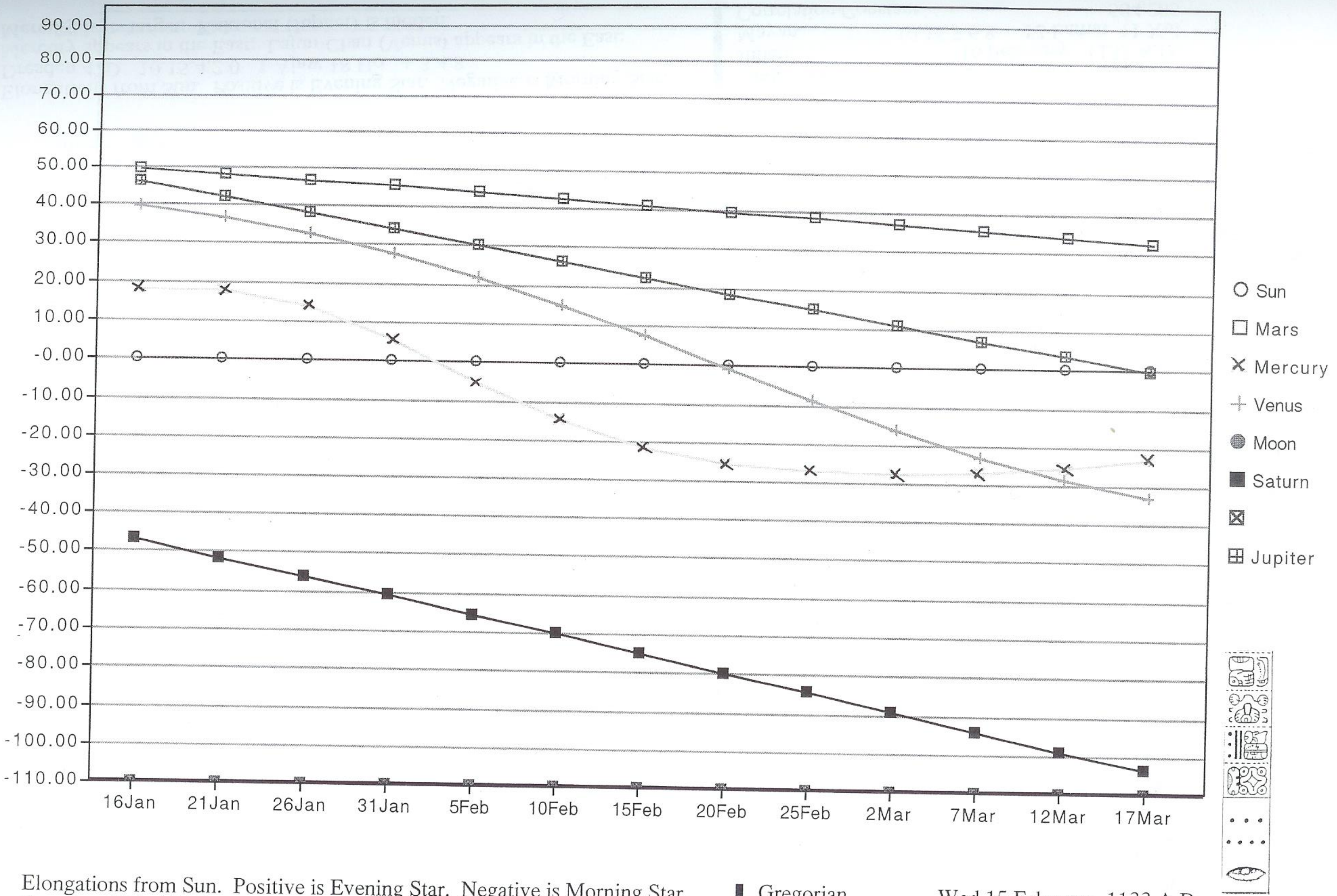
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 47A 10.15.4.2.0 1 Ajaw 18 Uo + 2.5.0

Gregorian		Sat 12 March 1132 A.D.
Julian		5 March 1132 A.D.
Mayan	10.15.6.7.0	2 Ahau 8 Yaxkin
Correlation Constant		584,285



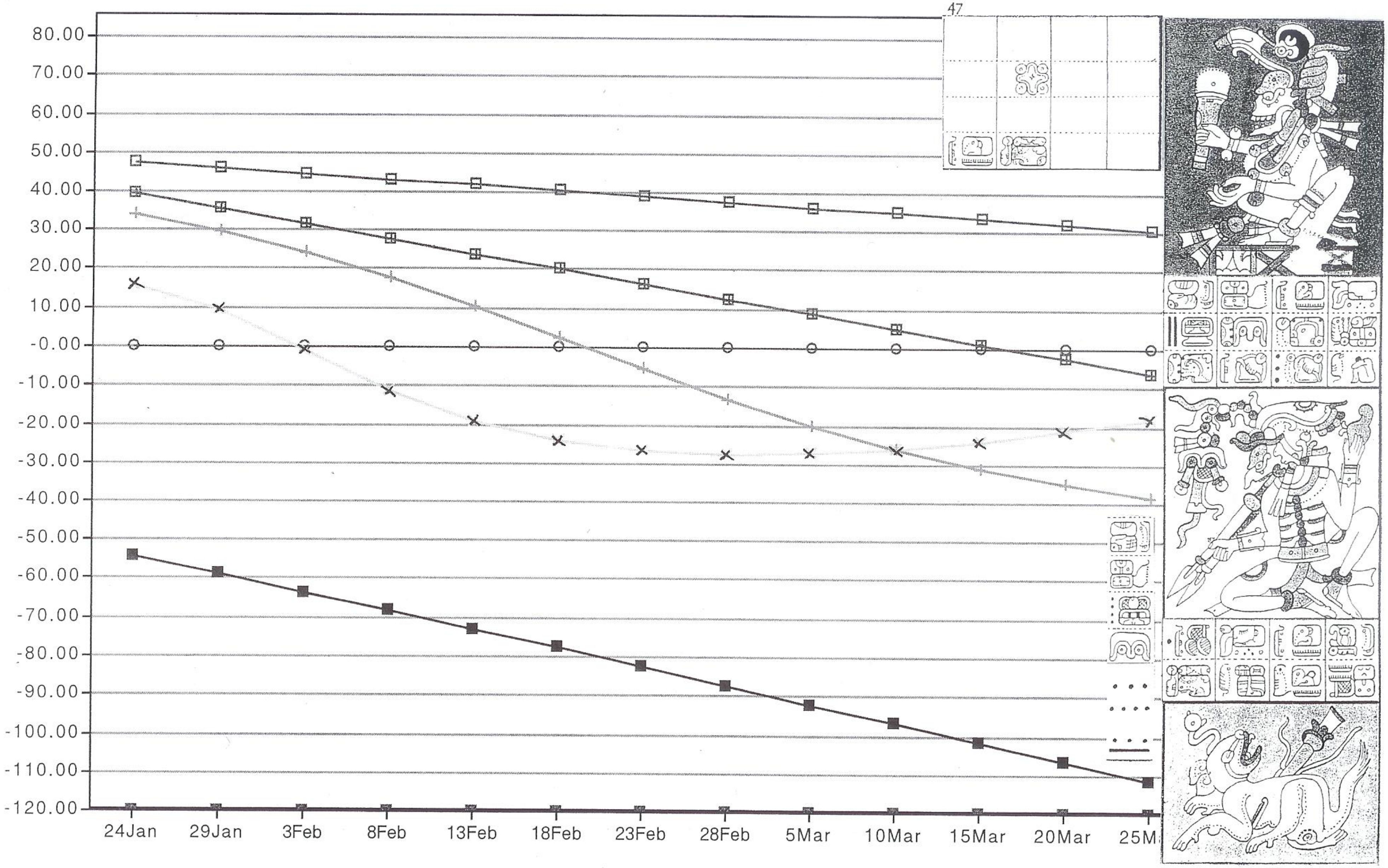
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 47B 10.15.4.2.0 1 Ajaw 18 Uo + 2.9.10
The Evening Star rises in the West

Gregorian		Fri 10 June 1132 A.D.
Julian		3 June 1132 A.D.
Mayan	10.15.6.11.10	1 Oc 18 Zac
Correlation Constant		584,285



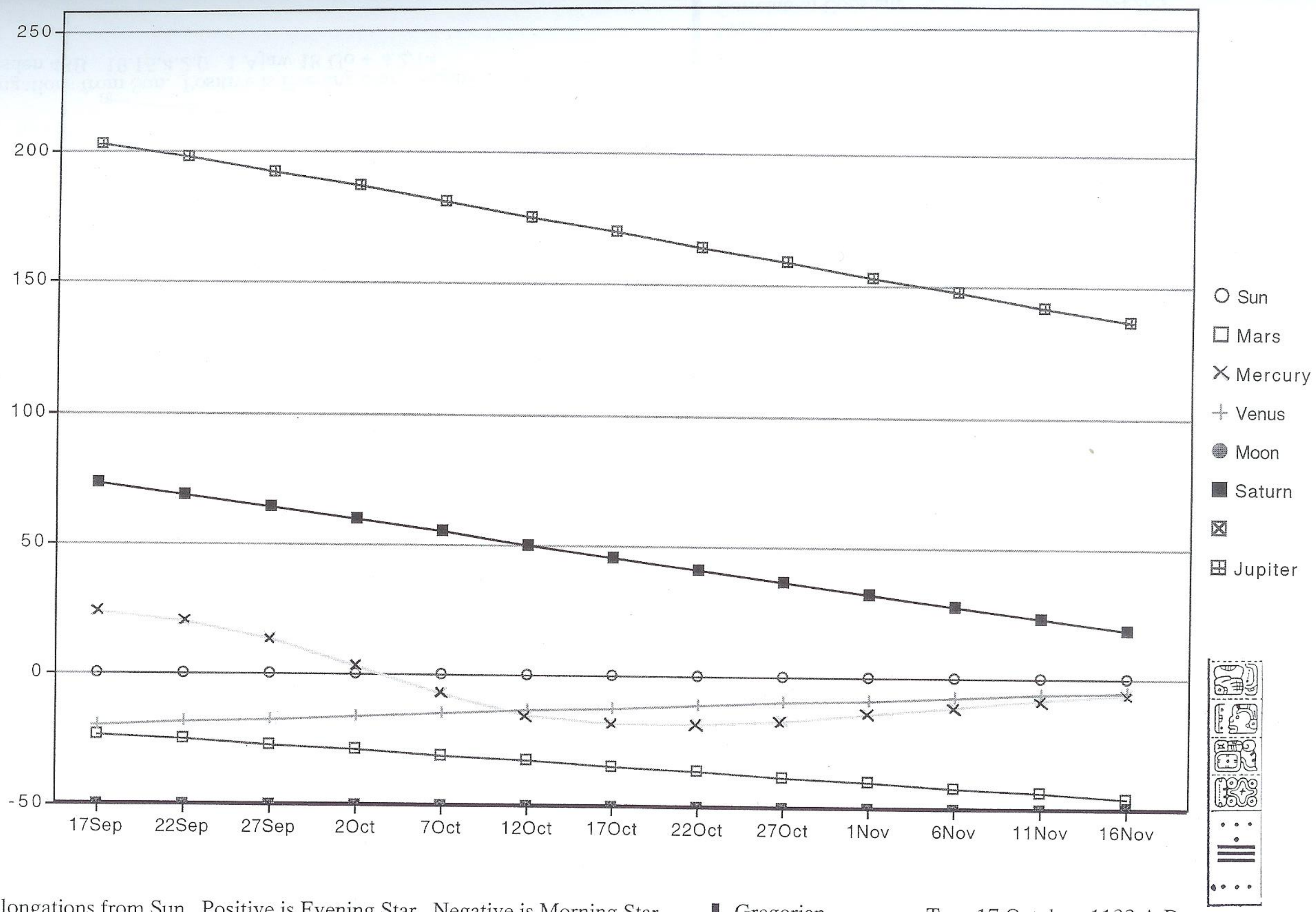
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 47C 10.15.4.2.0 1 Ajaw 18 Uo + 3.4.0

Gregorian	Wed 15 February 1133 A.D.
Julian	8 February 1133 A.D.
Mayan	10.15.7.6.0 4 Ahau 3 Xul
Correlation Constant	584,285



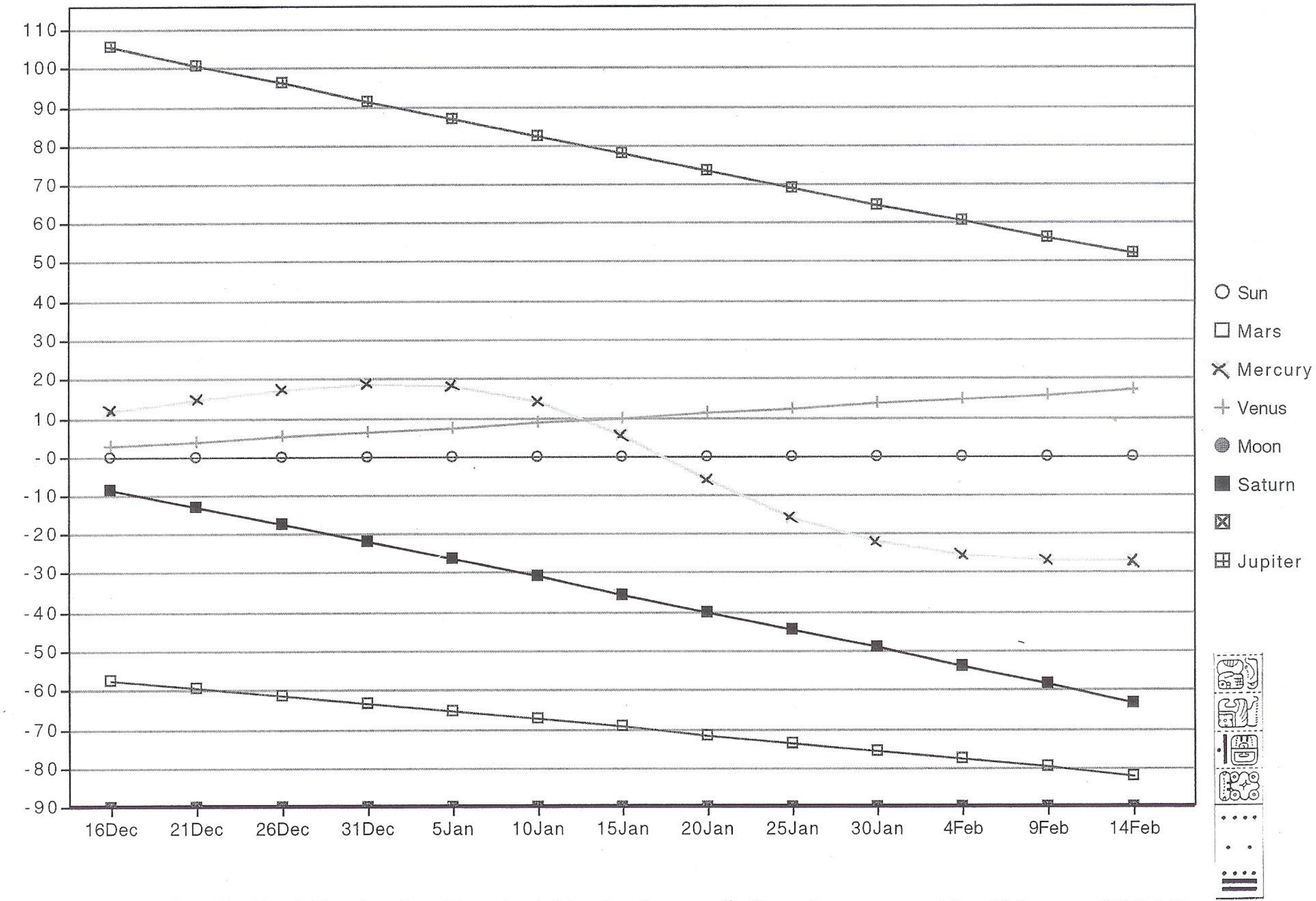
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 47D 10.15.4.2.0 1 Ajaw 18 Uo + 3.4.8
Mercury appears in the East; Lajun-Chan (Venus) appears in the East;
Mercury is its target; Kaktunal (Jupiter) is hidden.

Gregorian	Thur 23 February 1133 A.D.
Julian	16 February 1133 A.D.
Mayan	10.15.7.6.8 12 Lamat 11 Xul
Correlation Constant	584,285



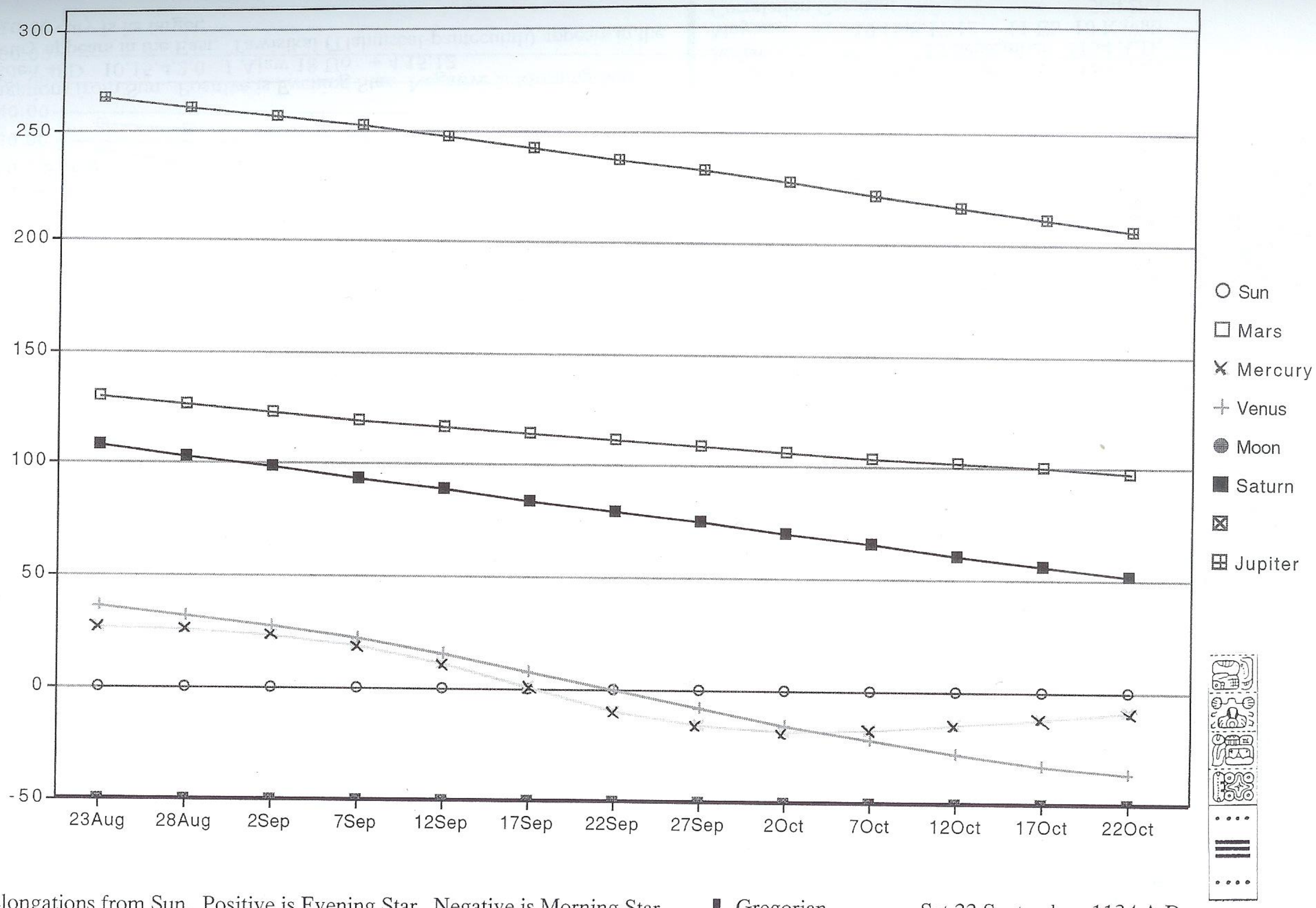
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 48A 10.15.4.2.0 1 Ajaw 18 Uo + 3.16.4

Gregorian	Tues 17 October	1133 A.D.
Julian	10 October	1133 A.D.
Mayan	10.15.8.0.4	1 Kan 7 Cumku
Correlation Constant		584,285



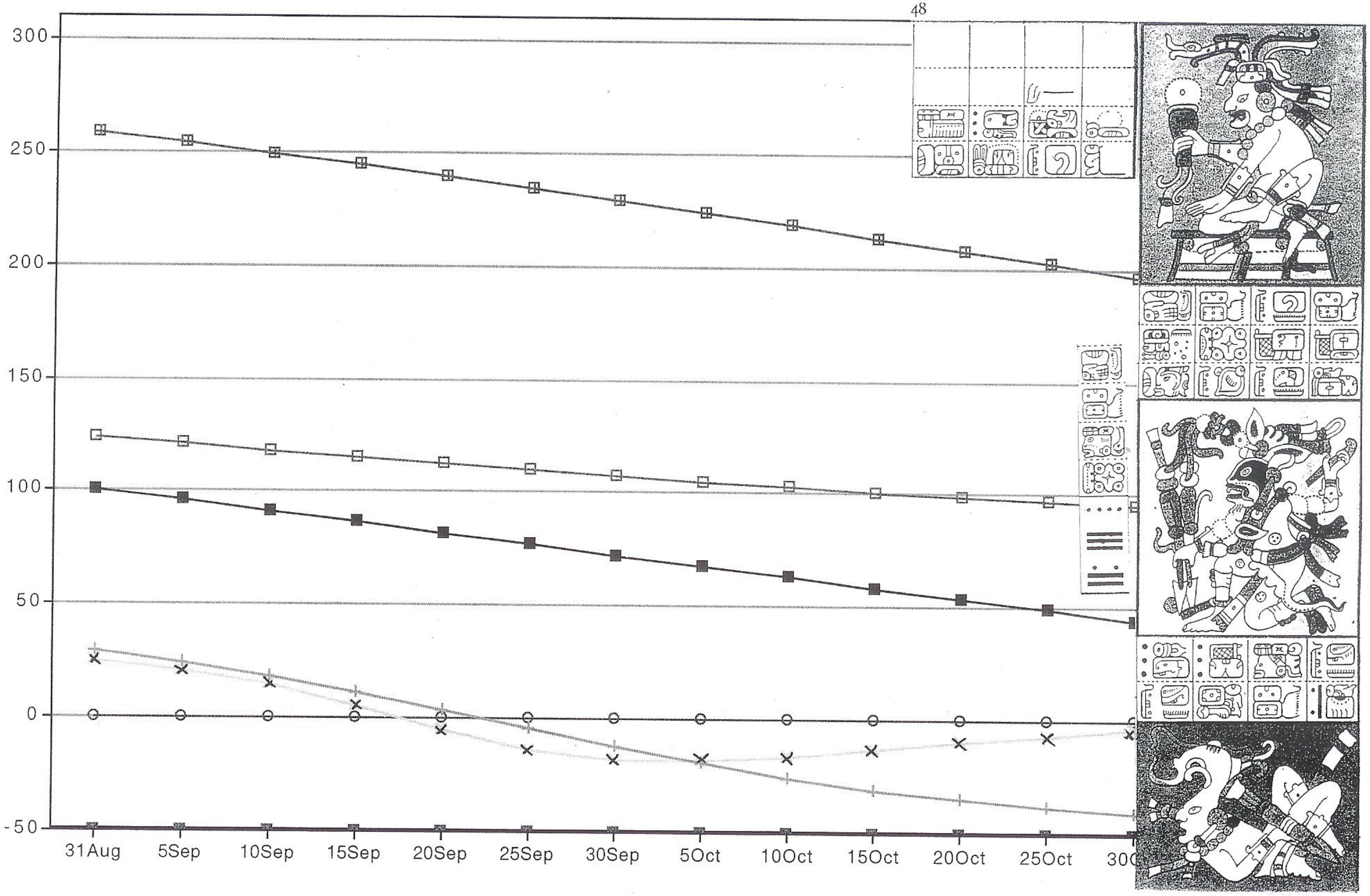
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 48B 10.15.4.2.0 1 Ajaw 18 Uo + 4.2.14

Gregorian	Mon 15 January	1134 A.D.
Julian	8 January	1134 A.D.
Mayan	10.15.8.4.14	13 Ix 12 Zotz'
Correlation Constant		584,285



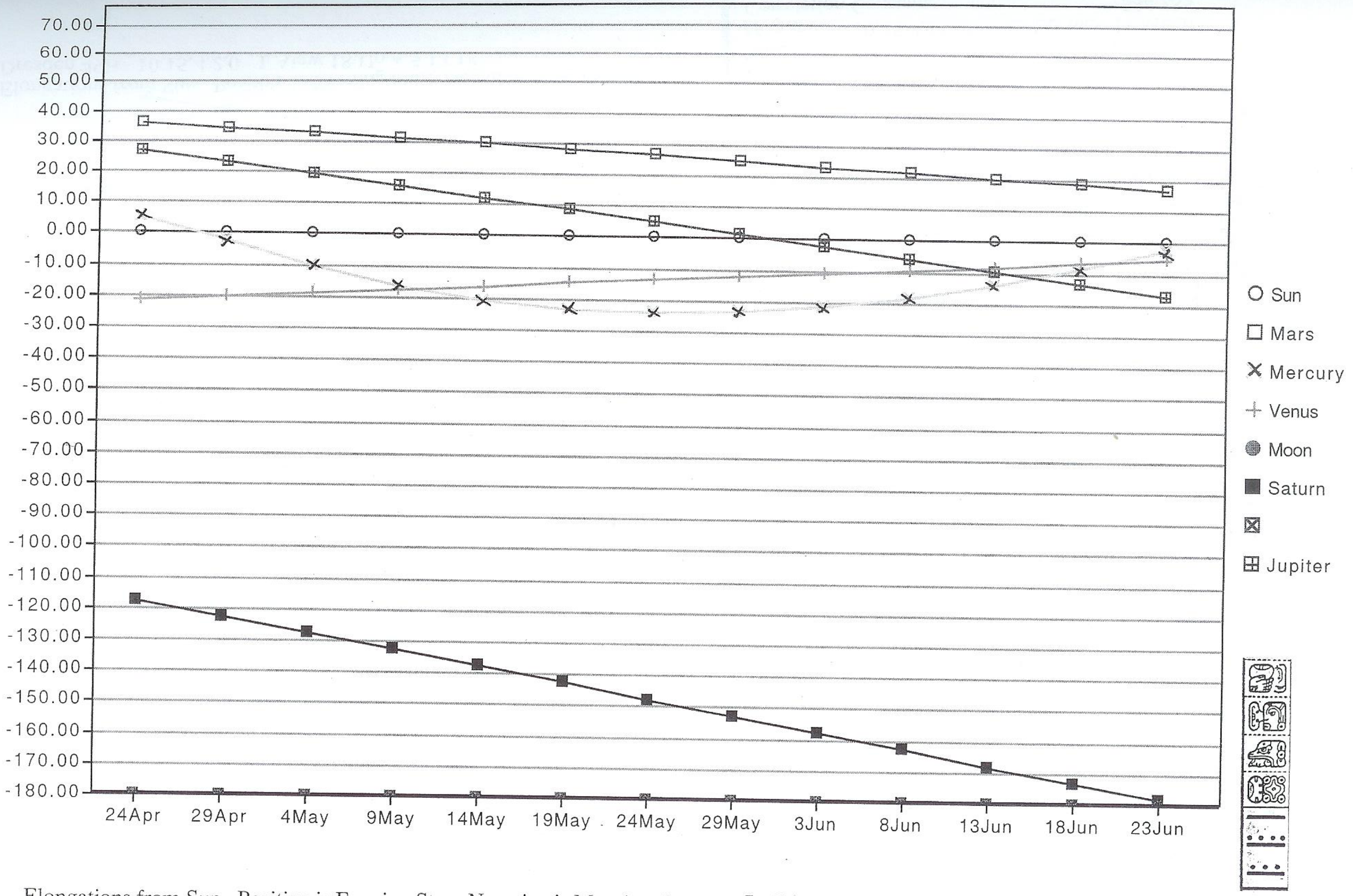
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 48C 10.15.4.2.0 1 Ajaw 18 Uo + 4.15.4

Gregorian	Sat 22 September	1134 A.D.
Julian	15 September	1134 A.D.
Mayan	10.15.8.17.4	3 Kan 2 Kayab
Correlation Constant		584,285



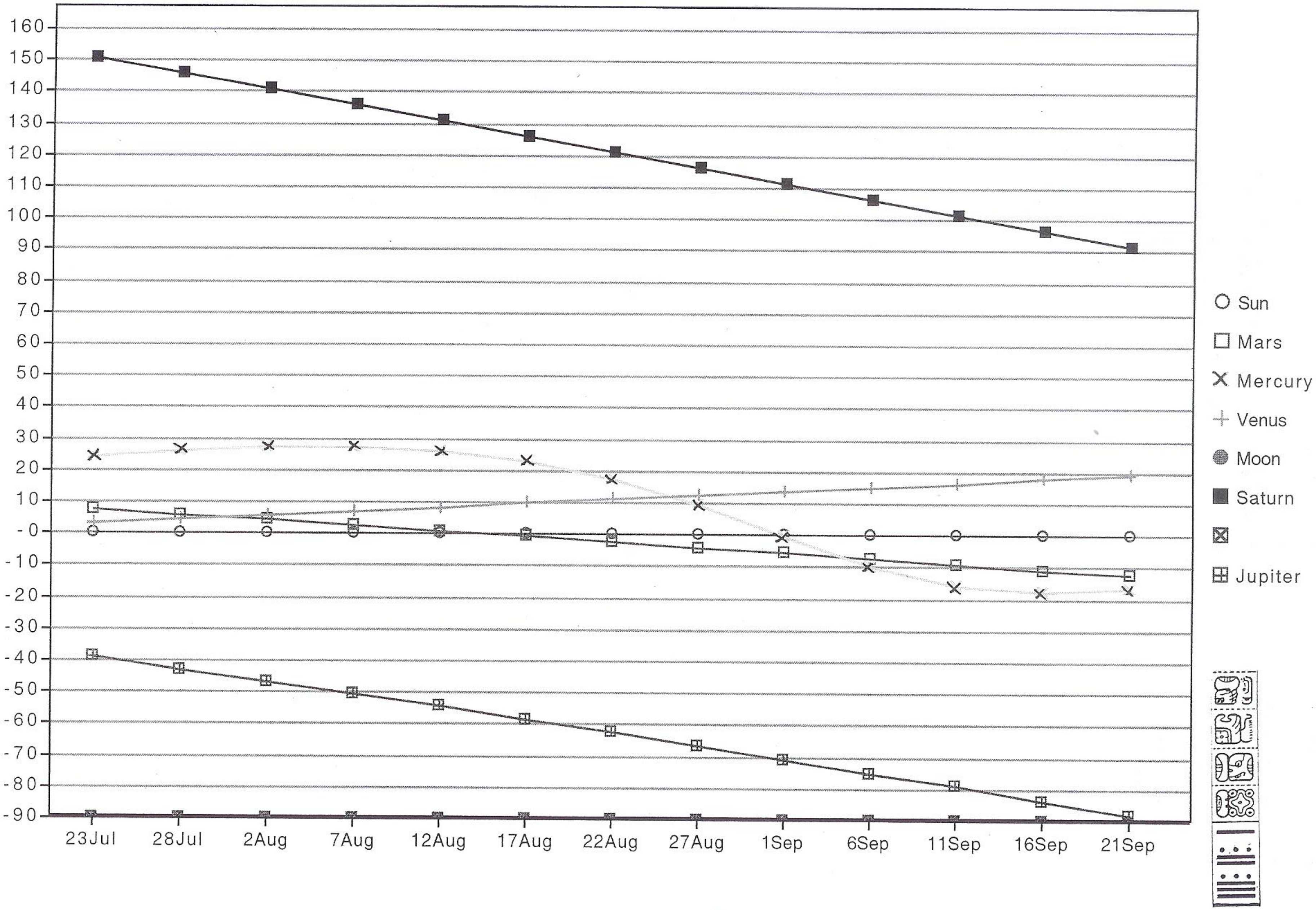
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 48D 10.15.4.2.0 1 Ajaw 18 Uo + 4.15.12
Mercury appears in the East; Tawisikal (Tlahuiscal-pantecuhtli) appears in the East; Mercury is its target;

Gregorian	Sun 30 September 1134 A.D.
Julian	23 September 1134 A.D.
Mayan	10.15.8.17.12 11 Eb 10 Kayab
Correlation Constant	584,285



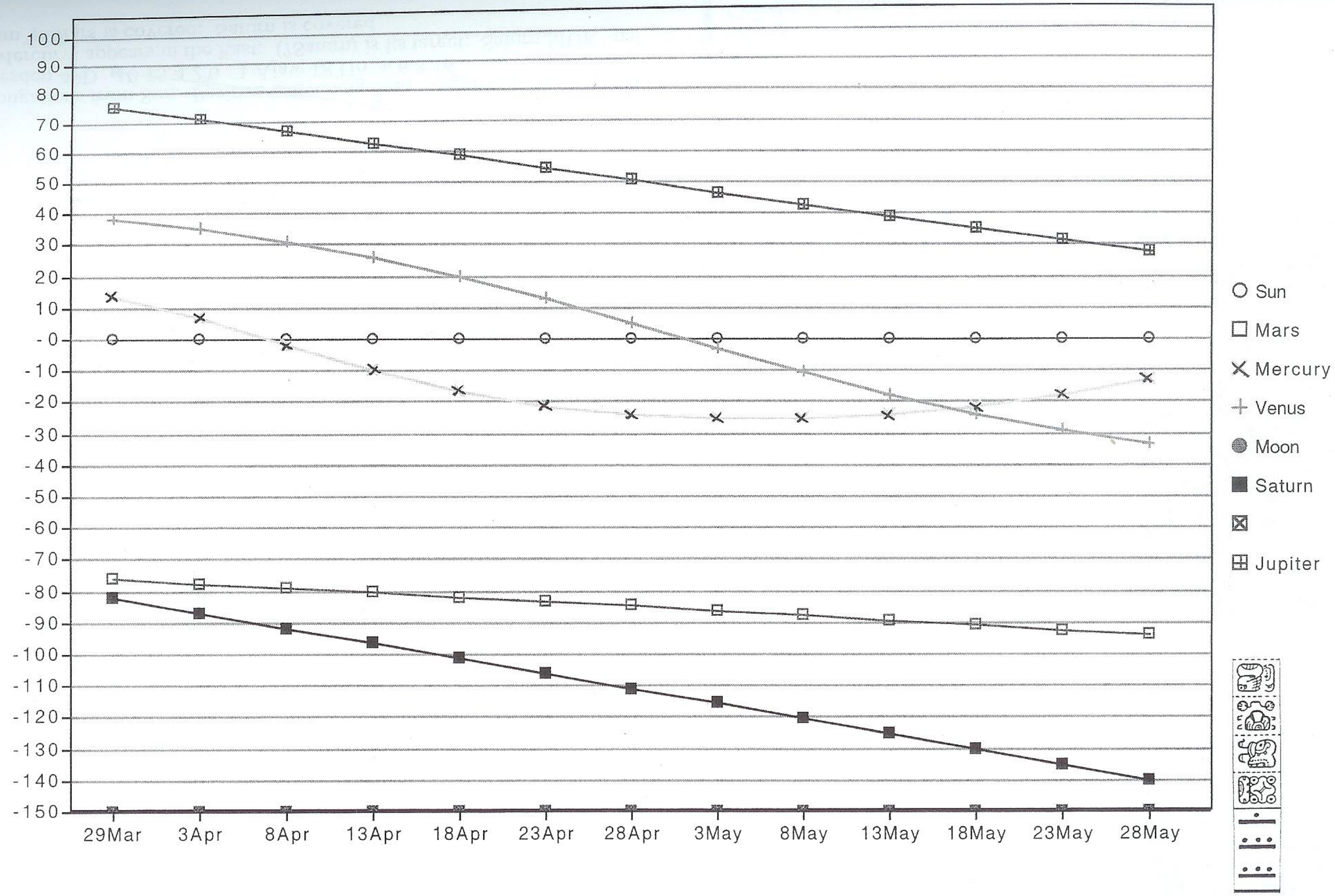
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 49A 10.15.4.2.0 1 Ajaw 18 Uo + 5.9.8

Gregorian		Fri 24 May 1135 A.D.
Julian		17 May 1135 A.D.
Mayan	10.15.9.11.8	13 Lamat 1 Zac
Correlation Constant		584,285



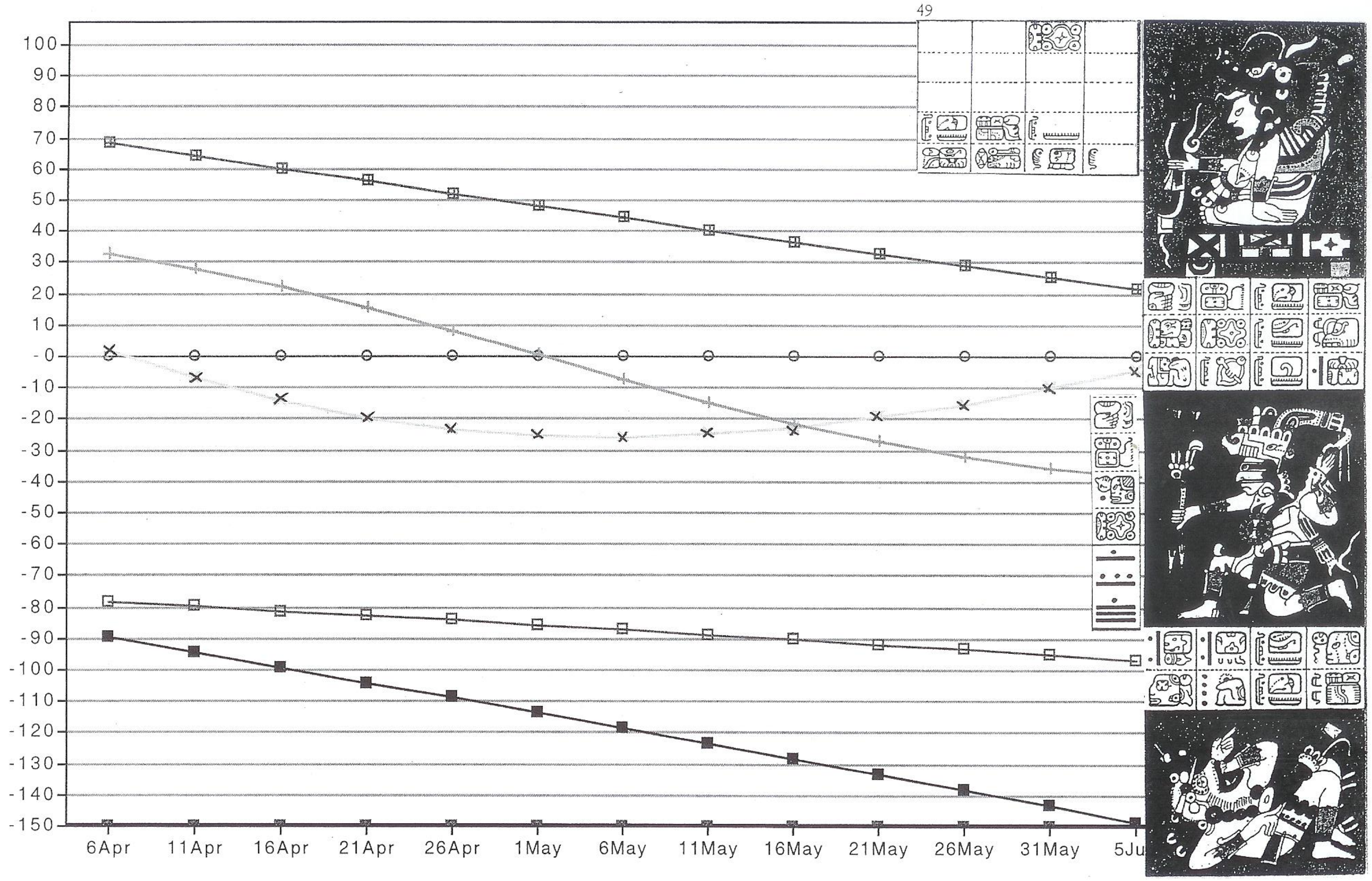
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 49B 10.15.4.2.0 1 Ajaw 18 Uo + 5.13.18

Gregorian		Thur 22 August 1135 A.D.
Julian		15 August 1135 A.D.
Mayan	10.15.9.15.18	12 Etz'nab 11 Muan
Correlation Constant		584,285



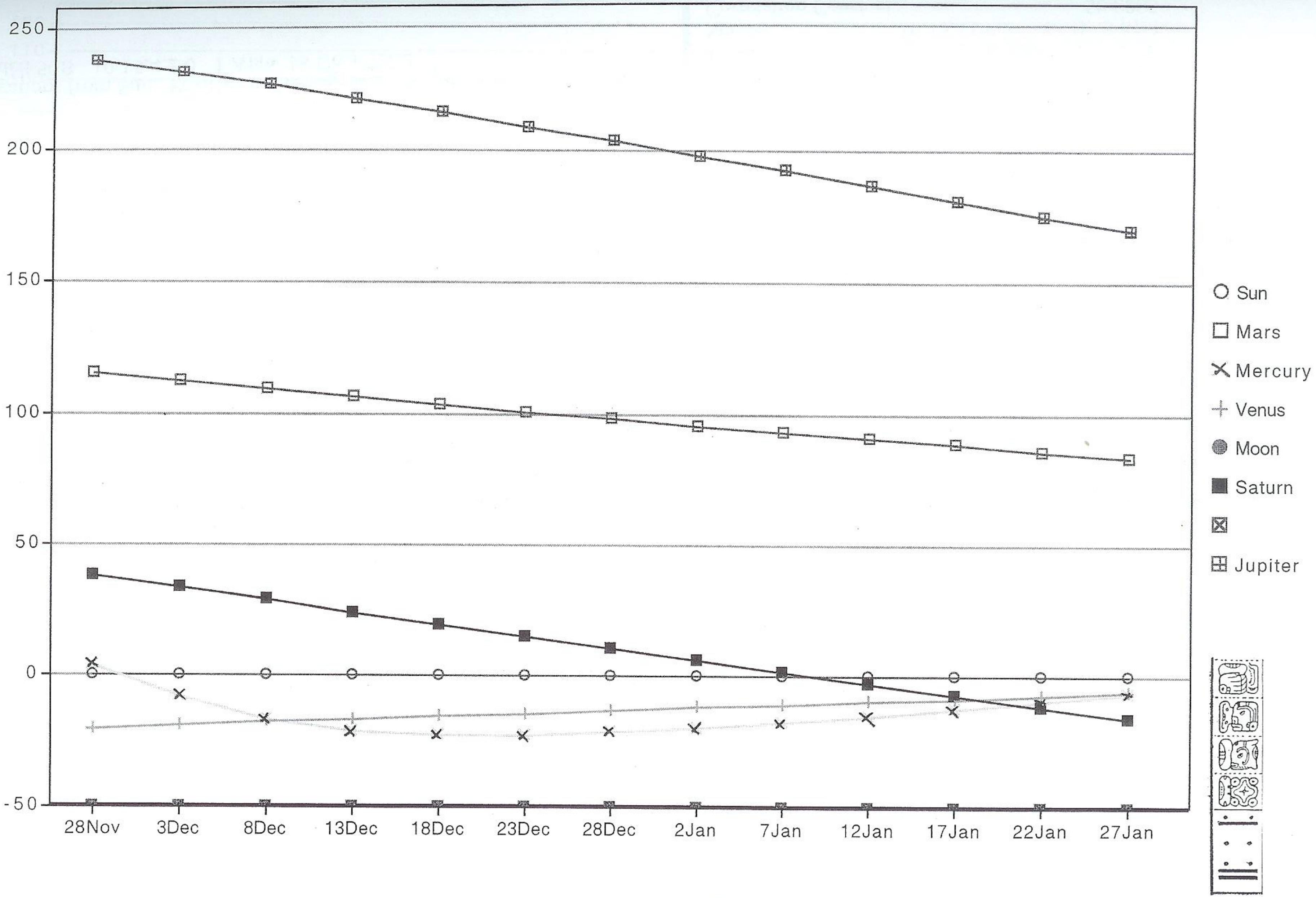
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 49C 10.15.4.2.0 1 Ajaw 18 Uo + 6.8.8

Gregorian		Tues 28 April 1136 A.D.
Julian		21 April 1136 A.D.
Mayan	10.15.10.10.8	2 Lamat 16 Ch'en
Correlation Constant		584,285



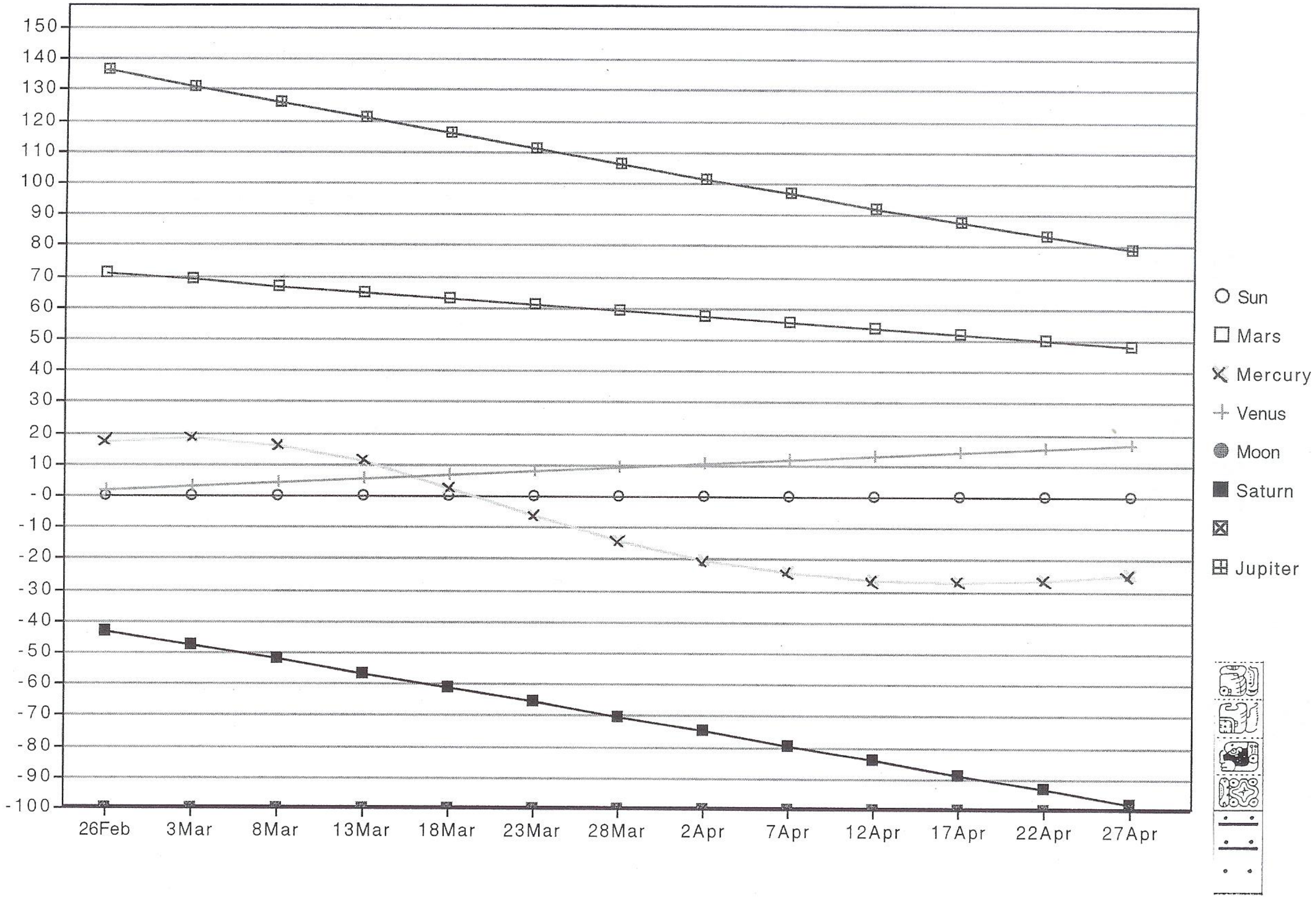
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 49D 10.15.4.2.0 1 Ajaw 18 Uo + 6.8.16
(?Mercury) appears in the East; (?Saturn) is its target; Saturn MUK'-nal "dim"; Mars is covered; Saturn is covered

Gregorian		Wed 6 May 1136 A.D.
Julian		29 April 1136 A.D.
Mayan	10.15.10.10.16	10 Cib 4 Yax
Correlation Constant		584,285



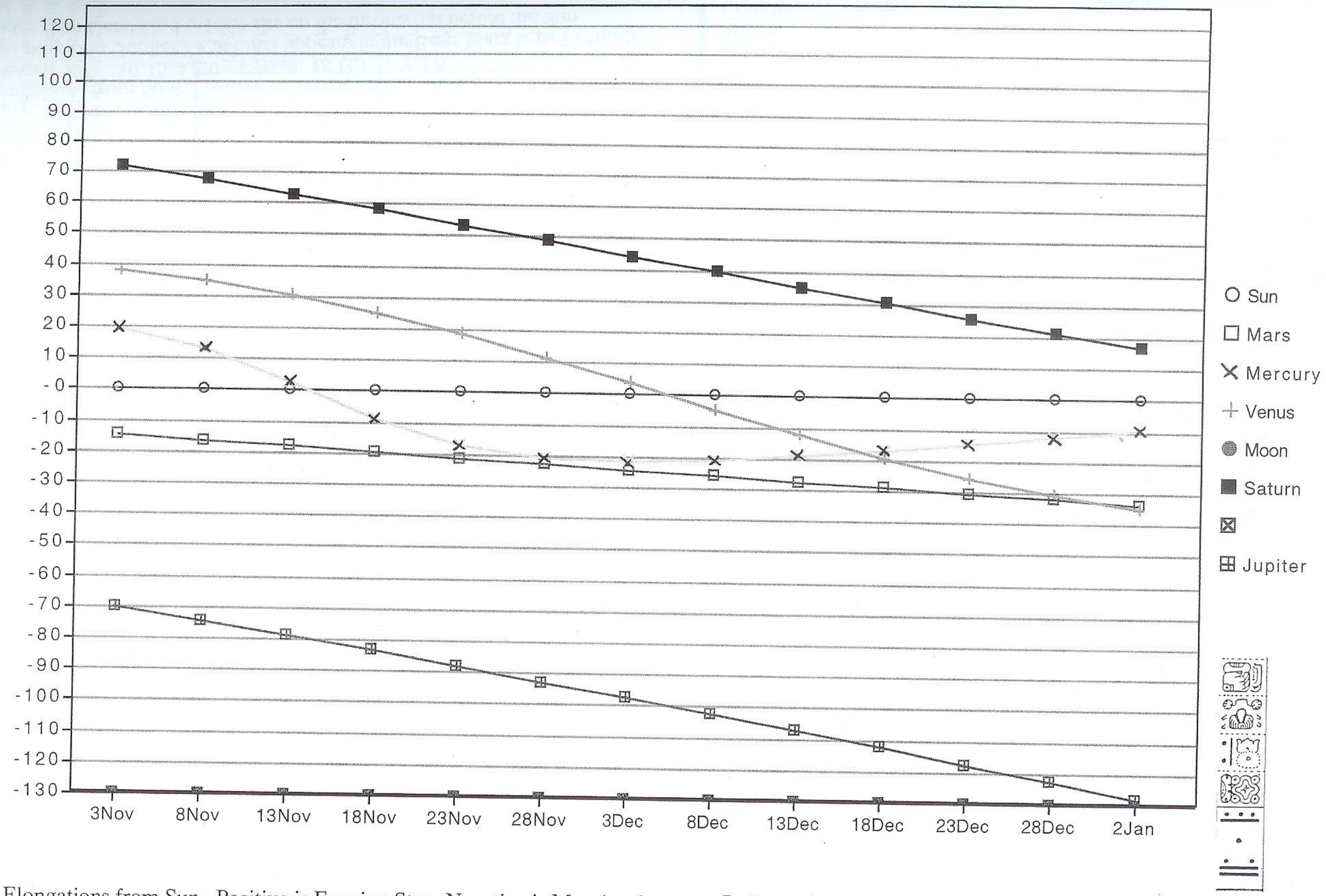
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 50A 10.15.4.2.0 1 Ajaw 18 Uo + 7.2.12

Gregorian	Mon 28 December	1136 A.D.
Julian	21 December	1136 A.D.
Mayan	10.15.11.4.12	12 Eb 15 Zip
Correlation Constant		584,285



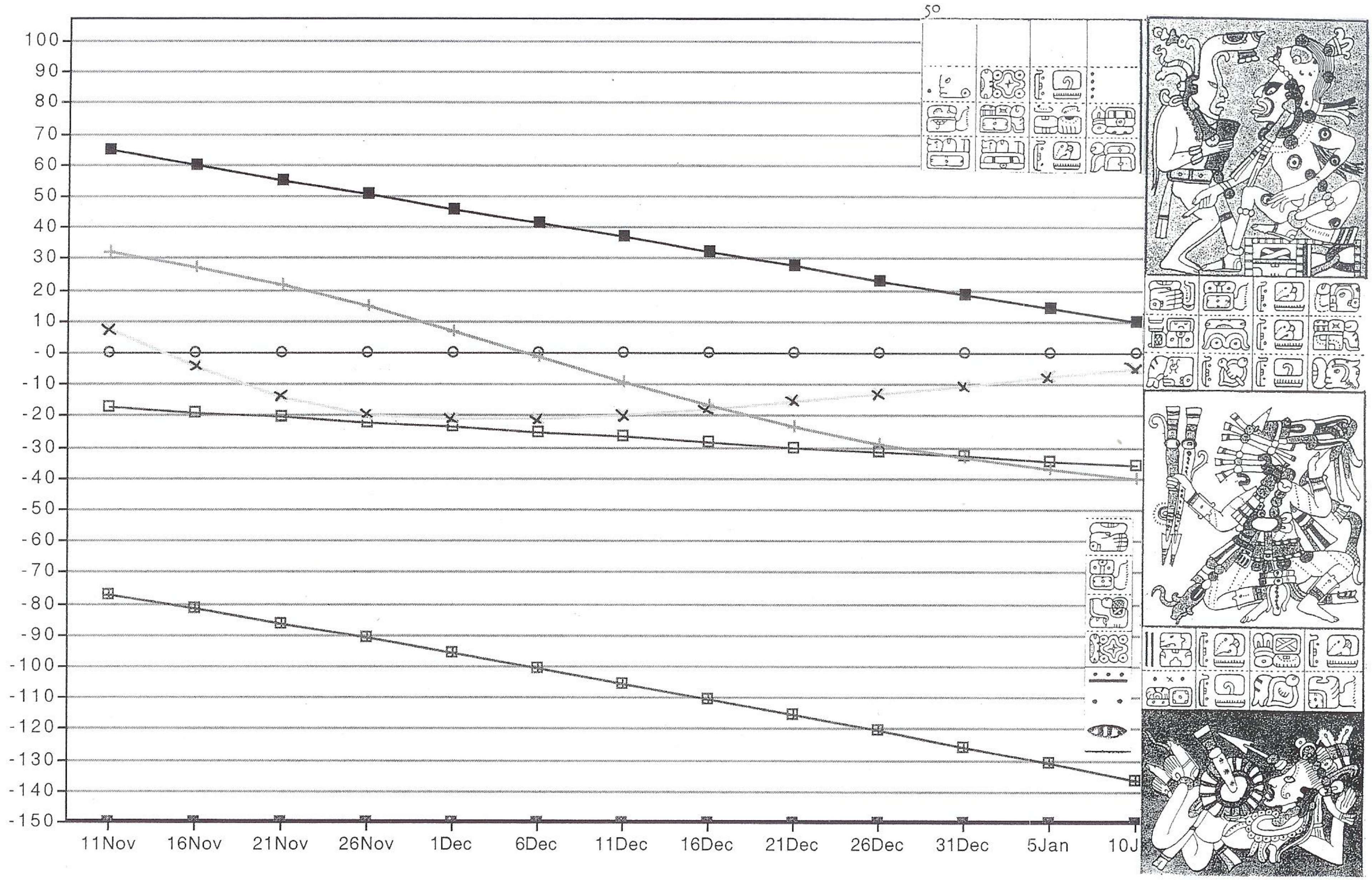
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 50B 10.15.4.2.0 1 Ajaw 18 Uo + 7.7.2

Gregorian	Sun 28 March 1137 A.D.
Julian	21 March 1137 A.D.
Mayan	10.15.11.9.2 11 Ik 5 Mol
Correlation Constant	584,285



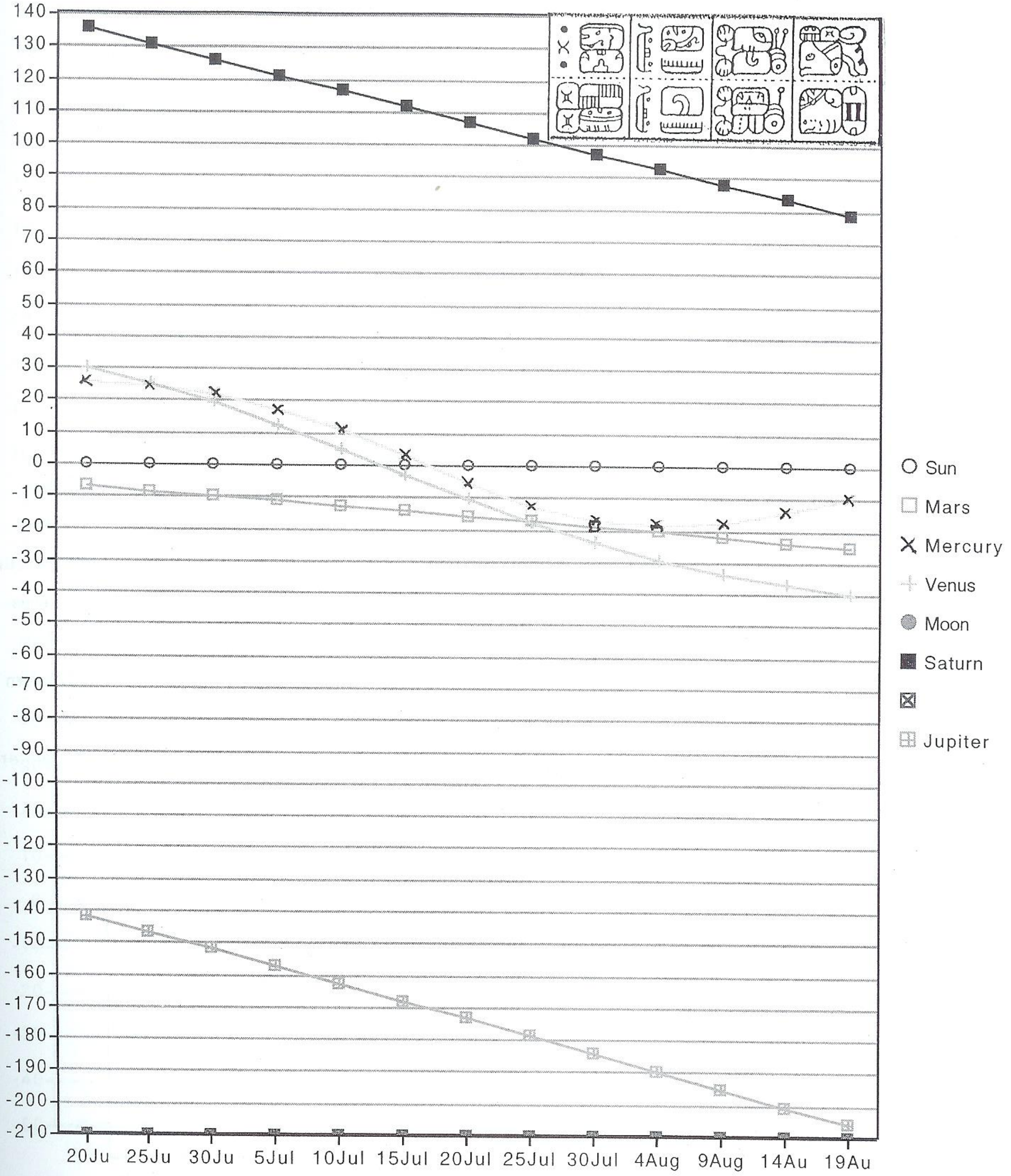
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 50C 10.15.4.2.0 1 Ajaw 18 Uo + 8.1.12

Gregorian	Fri 3 December 1137 A.D.
Julian	26 November 1137 A.D.
Mayan	10.15.12.3.12 1 Eb 10 Uo
Correlation Constant	584,285



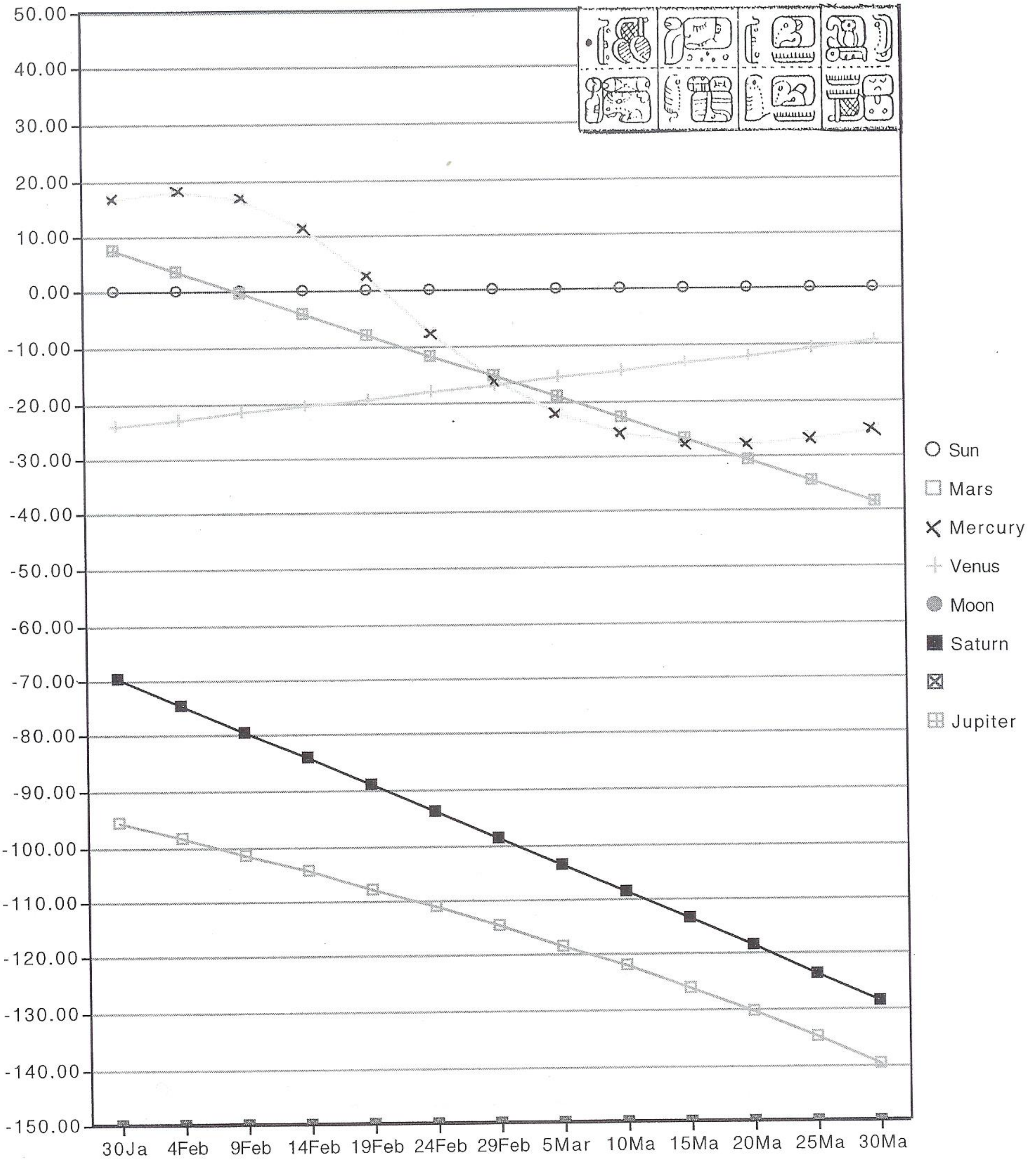
Elongations from Sun. Positive is Evening Star. Negative is Morning Star.
Dresden 50D 10.15.4.2.0 1 Ajaw 18 Uo + 8.2.0
Text possibly: Jupiter / Kaktunal appears in the East; Mars is its (Venus's) target; The DeathGod (Mars) sits on the throne, 1st before the Sun.

Gregorian	Sat 11 December 1137 A.D.
Julian	4 December 1137 A.D.
Mayan	10.15.12.4.0 9 Ahau 18 Uo
Correlation Constant	584,285



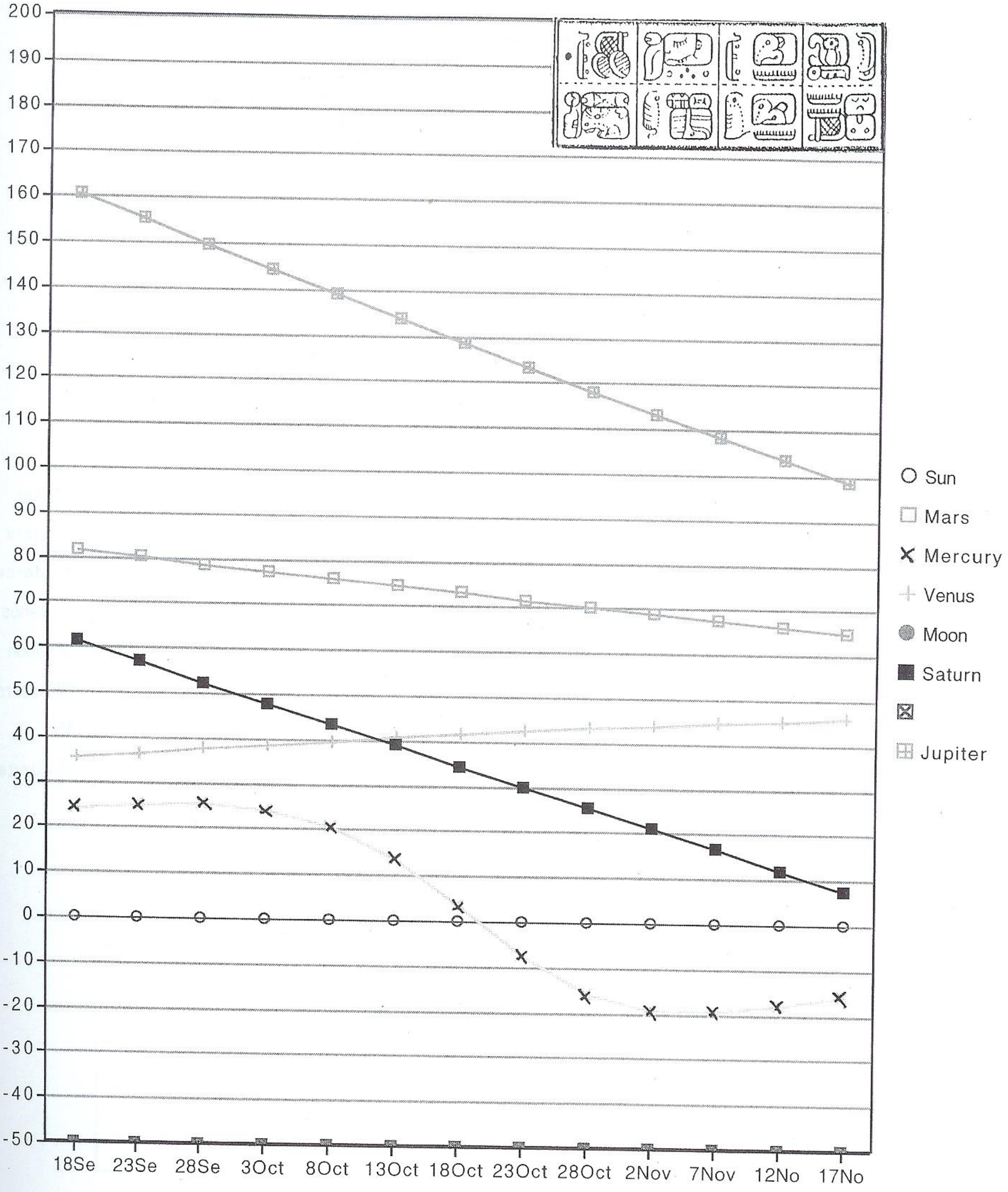
Elongations from Sun. Negative is Morning Star. Dresden 46EFGH. Whether we count forwards or back 2 days from this date, either way Mercury is invisible, though counting back puts both Mercury and Venus in conjunction with the Sun.

Gregorian		Mon 20 July 1131 A.D.
Julian		13 July 1131 A.D.
Mayan	10.15.5.13.4	13 Kan 17 Mac
Correlation Constant		584,285



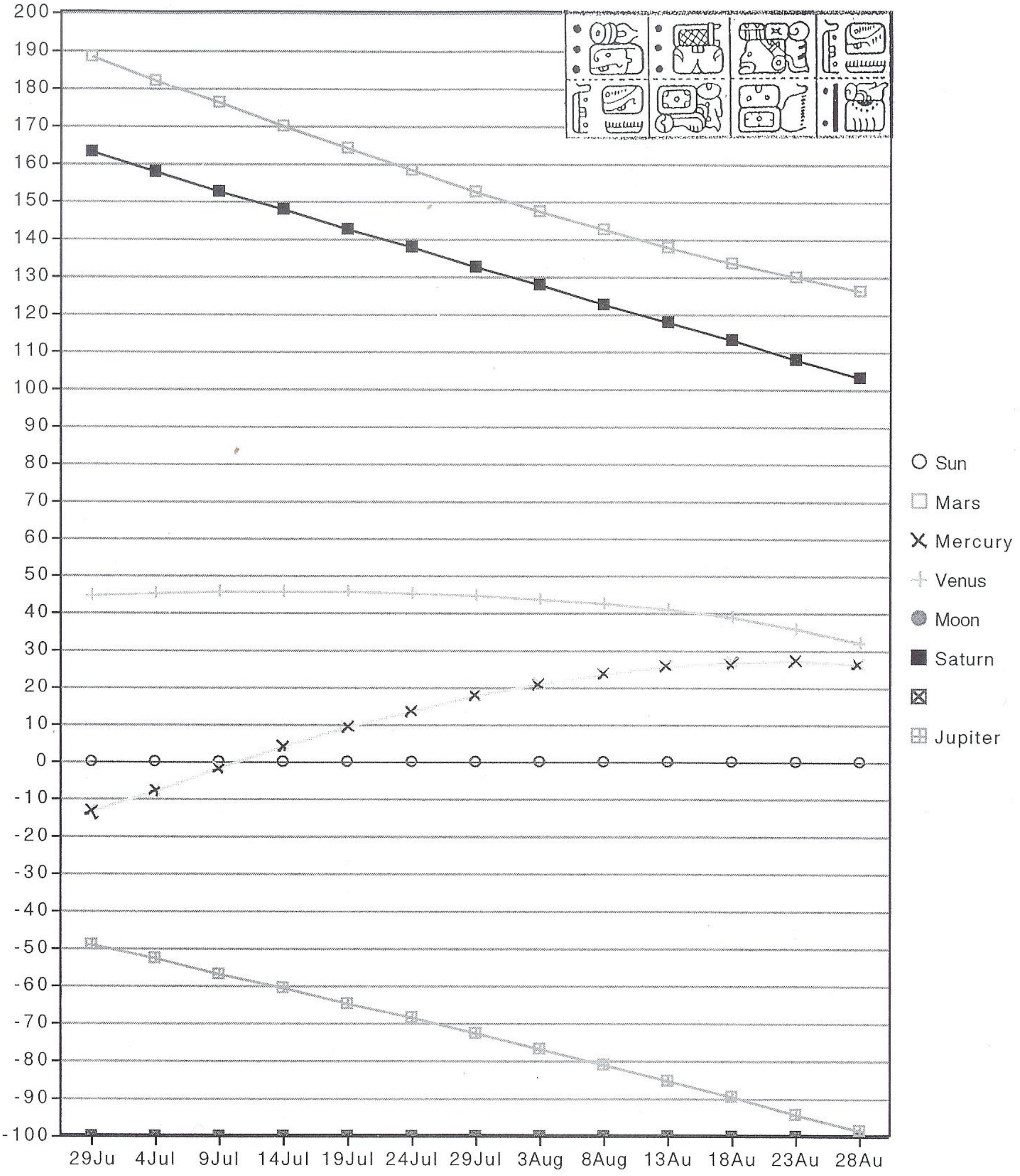
Elongations from Sun. Negative is Morning Star.
Dresden 47EFGH lower text, if one TUUN before date.
Mercury is occulted by both Venus and Jupiter,
all three in conjunction.

Gregorian	Mon 29 February	1132 A.D.
Julian	22 February	1132 A.D.
Mayan	10.15.6.6.8	3 Lamat 16 Xul
Correlation Constant		584,285



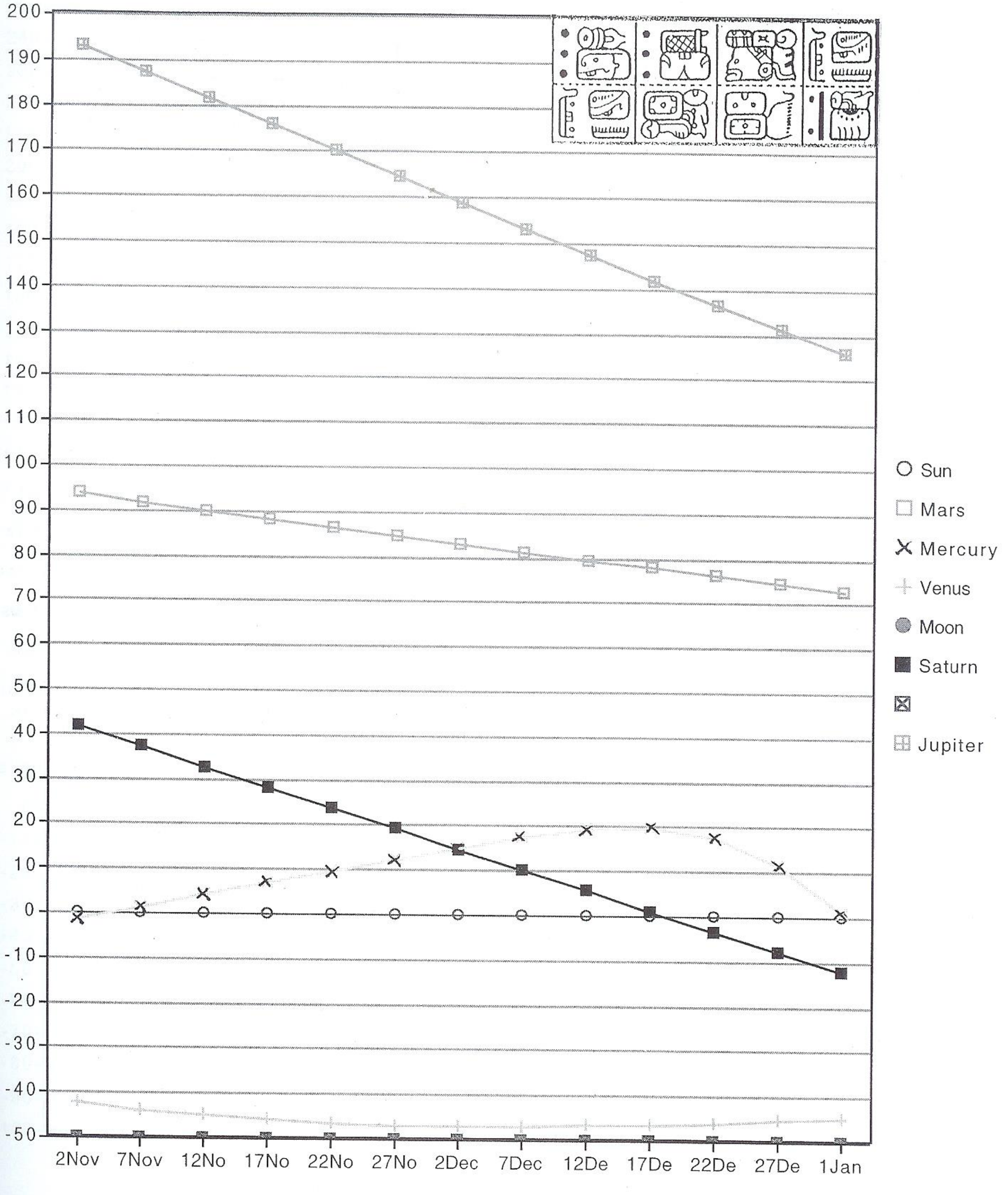
Elongations from Sun. Negative is Morning Star.
Dresden 47EFGH lower text, if an even TUUN.
Mercury occulted in the Sun.

Gregorian	Tues 18 October	1132 A.D.
Julian	11 October	1132 A.D.
Mayan	10.15.7.0.0	1 Ahau 8 Cumku
Correlation Constant		584,285



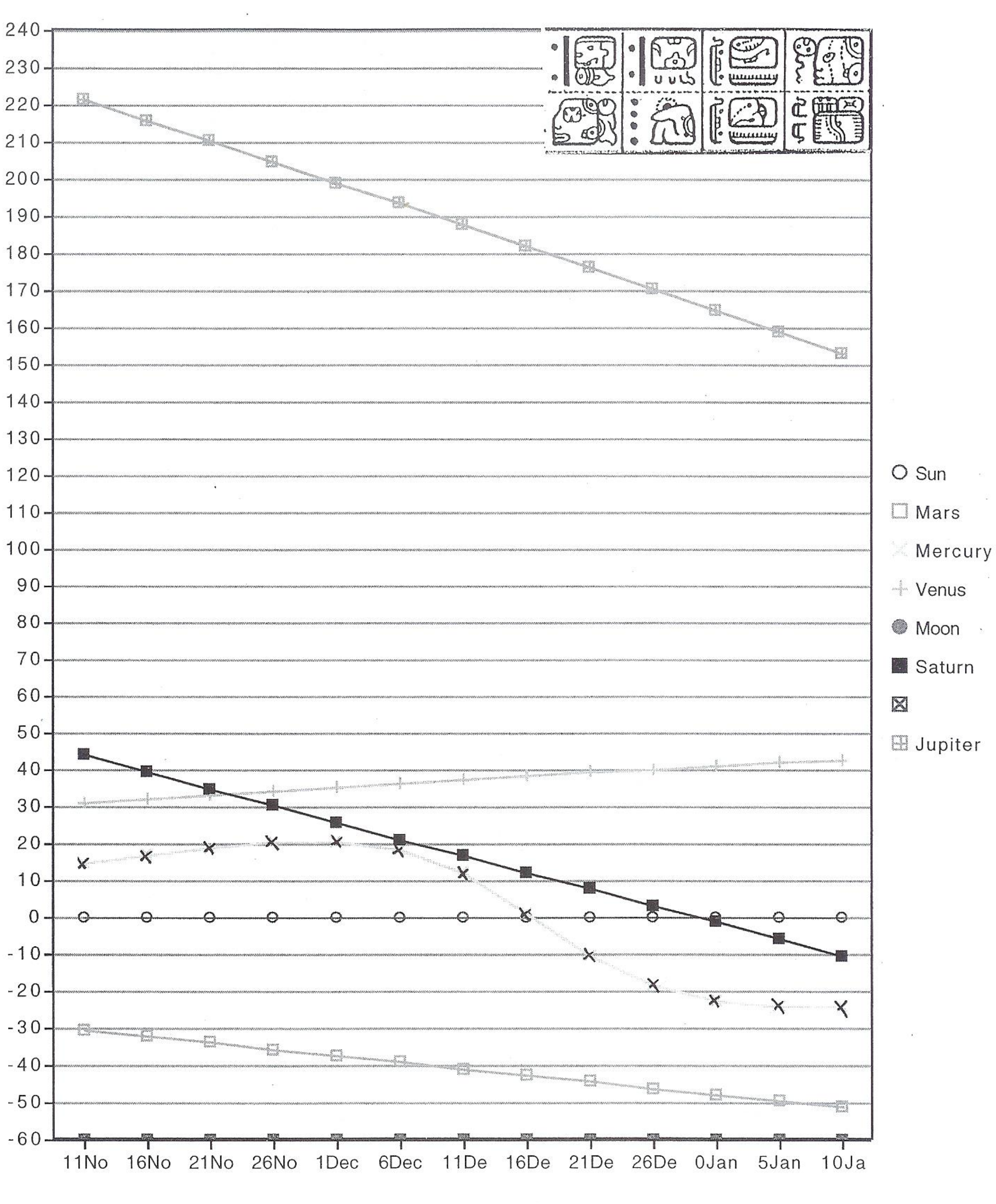
Elongations from Sun. Negative is Morning Star.
Dresden 48EFGH, counting back 3 Days 3 Winals.
No match to text?

Gregorian		Sun 29 July 1134 A.D.
Julian		22 July 1134 A.D.
Mayan	10.15.8.14.9	13 Muluc 7 Kankin
Correlation Constant		584,285



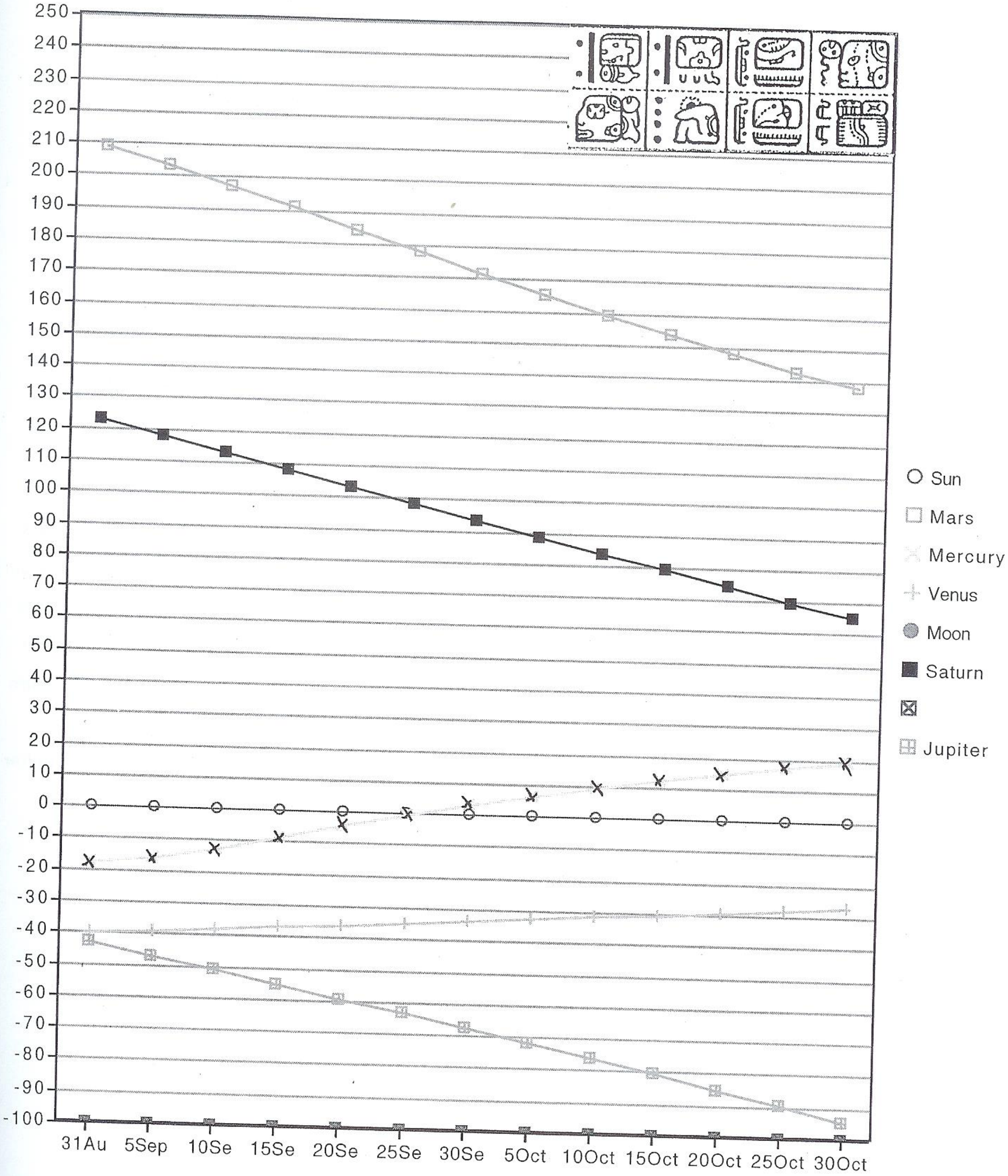
Elongations from Sun. Negative is Morning Star.
Dresden 48EFGH, counting forward 3 Days 3 Winals
Mercury is occulted in Saturn as evening star.
Venus is at maximum elongation as morning star.

Gregorian	Sun 2 December 1134 A.D.
Julian	25 November 1134 A.D.
Mayan	10.15.9.2.15 9 Men 8 Uo
Correlation Constant	584,285



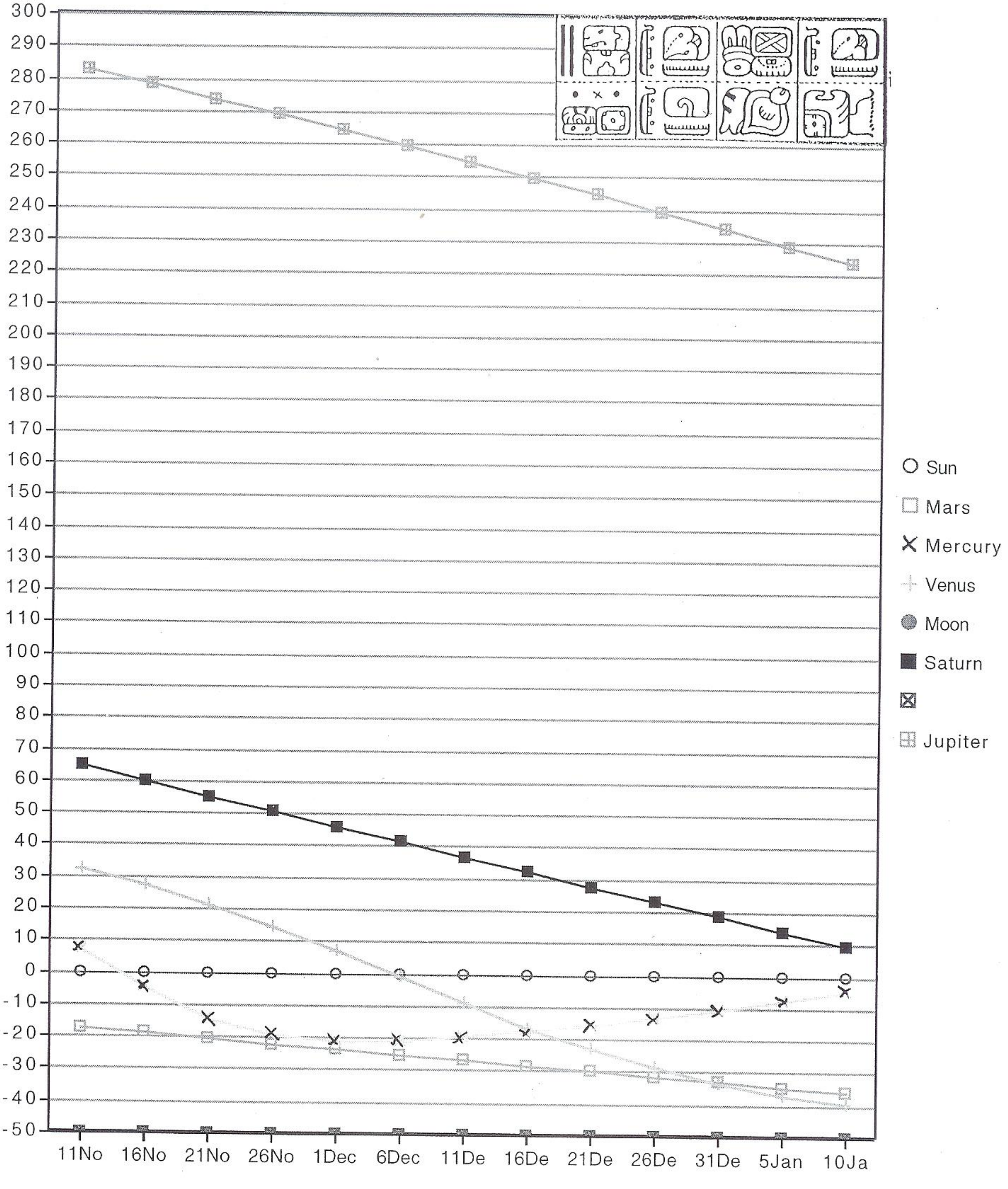
Elongations from Sun. Negative is Morning Star. Dresden 49EFGH, counting back 7 Days 7 Winals. Saturn (and Mercury) are 'persevering', not yet vanished.

Gregorian	Wed 11 December	1135 A.D.
Julian	4 December	1135 A.D.
Mayan	10.15.10.3.9	6 Muluc 17 Uo
Correlation Constant		584,285



Elongations from Sun. Negative is Morning Star.
Dresden 49EFGH counting forward 7 Days 7 Winals.
Mercury in conjunction with the Sun,
but none of the texts seem to correspond.

Gregorian	Wed 30 September	1136 A.D.
Julian	23 September	1136 A.D.
Mayan	10.15.11.0.3	1 Akbal 11 Kayab
Correlation Constant		584,285



Elongations from Sun. Negative is Morning Star.
Dresden 50EFGH, whether counting back
or forwards 10 Days from this date.
Does text have any match?

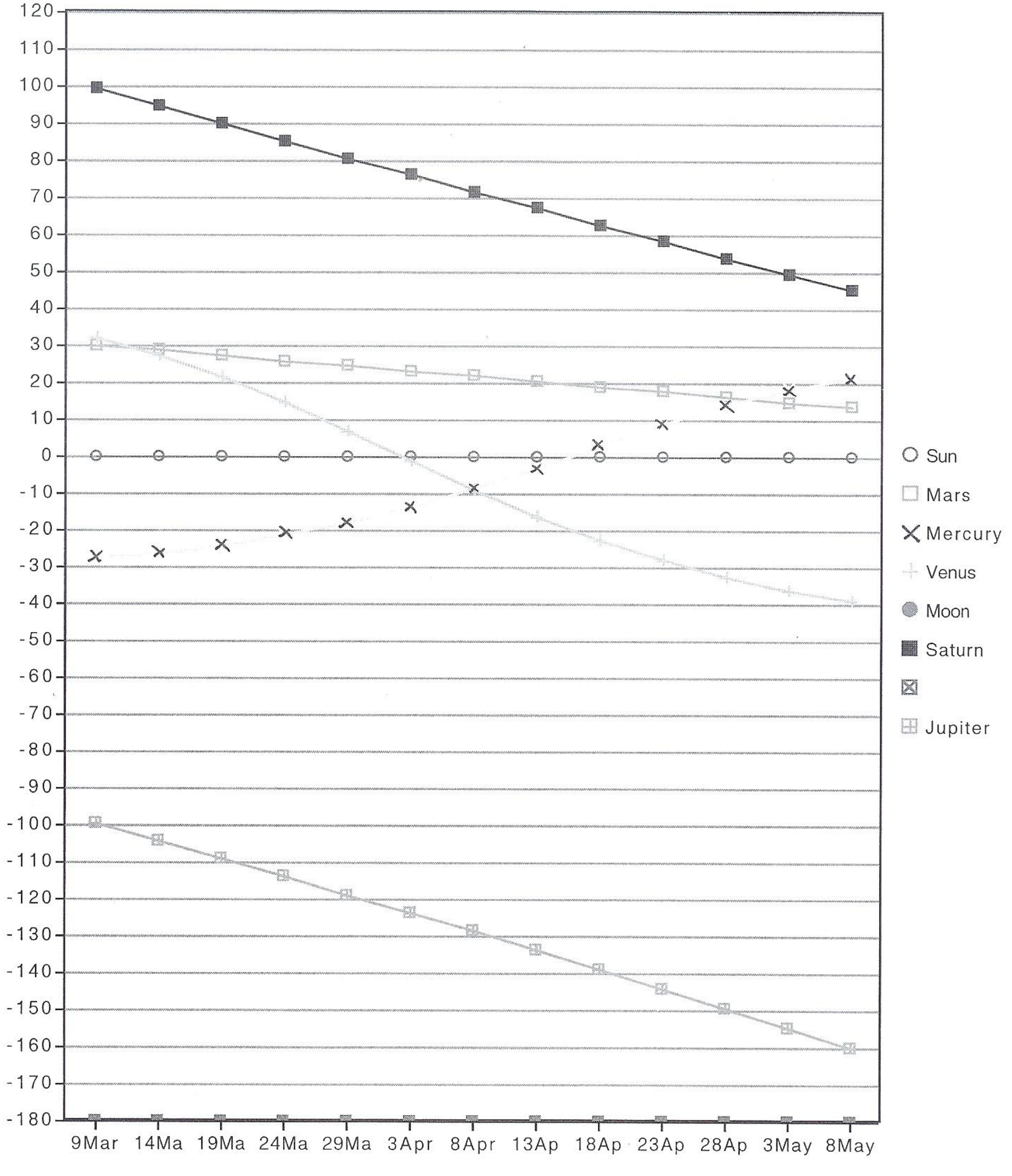
Gregorian	Sat 11 December	1137 A.D.
Julian	4 December	1137 A.D.
Mayan	10.15.12.4.0	9 Ahau 18 Uo
Correlation Constant		584,285

Appendix E.

Astronomy at some dates of "Fire Enters the House" and "Censing"

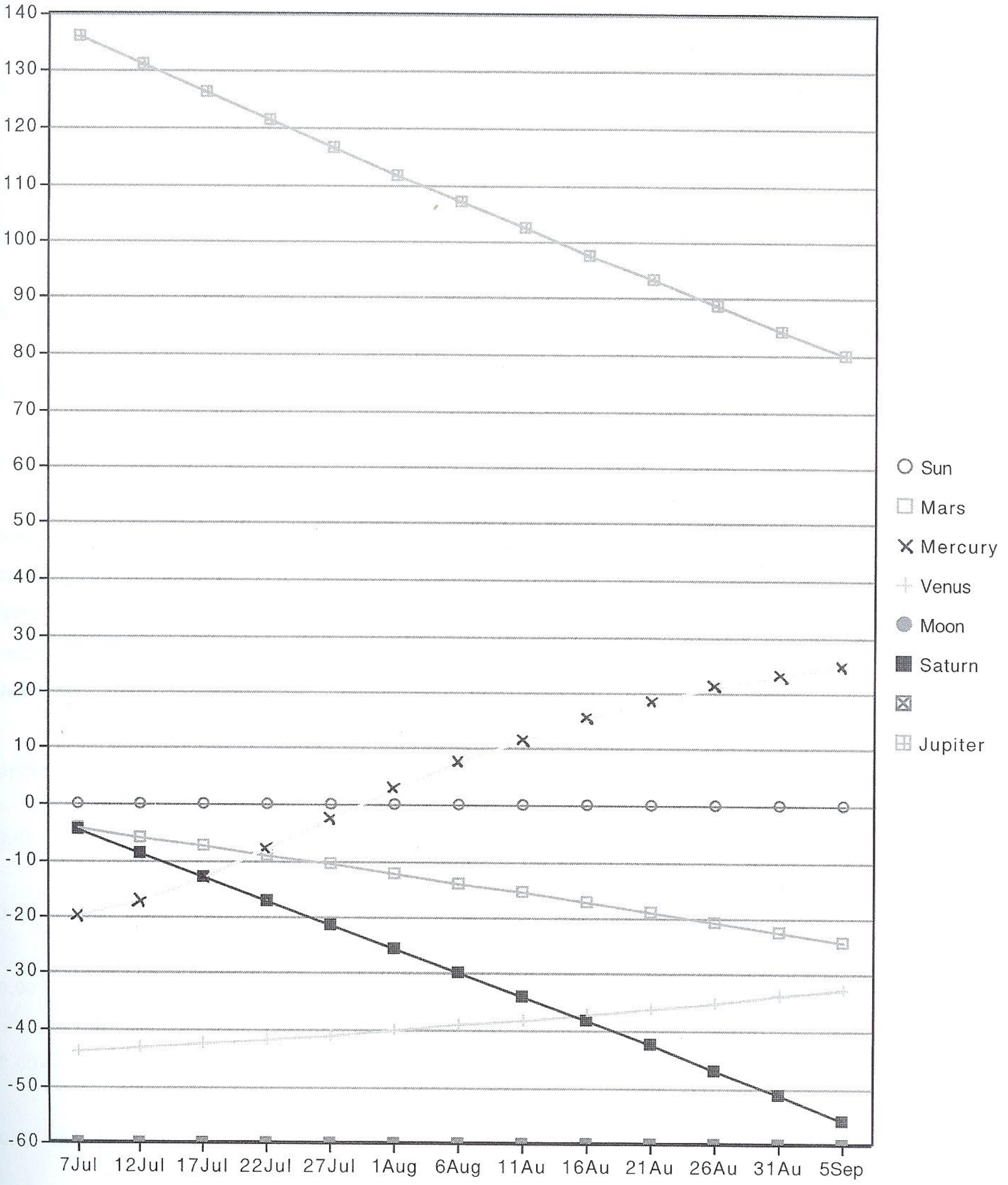
where Mercury is in Conjunction with the Sun?

These dates are taken from David Stuart's 1997 article "Fire Enters the House", to test whether dates with such verbs are more likely to have these astronomical correlates in classical monumental texts as well as in astronomical tables of the Dresden Codex. Of these dates, 8 support the hypothesis, one is indeterminate (because it has several distinct verbs at the same date), and there is one counterexample.



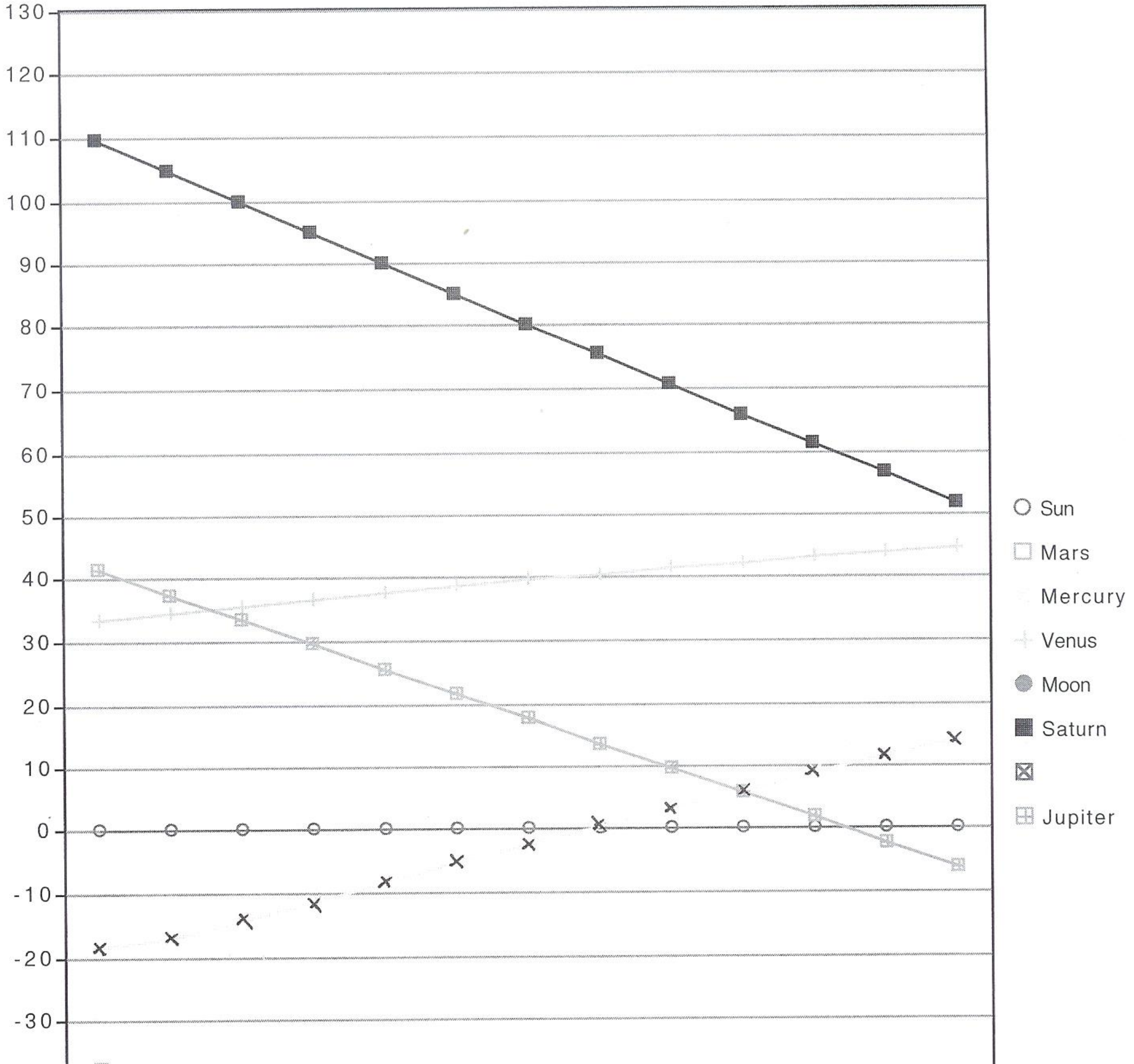
Elongations from Sun. Negative is Morning Star. "Fire Enters the House" date on Yaxchilan Lintel 56. Mercury is entering superior conjunction, while Venus has just emerged from inferior conjunction, as morning star.

Gregorian		Fri 8 April 738 A.D.
Julian		4 April 738 A.D.
Mayan	9.15.6.13.1	7 Imix 19 Zip
Correlation Constant		584,285



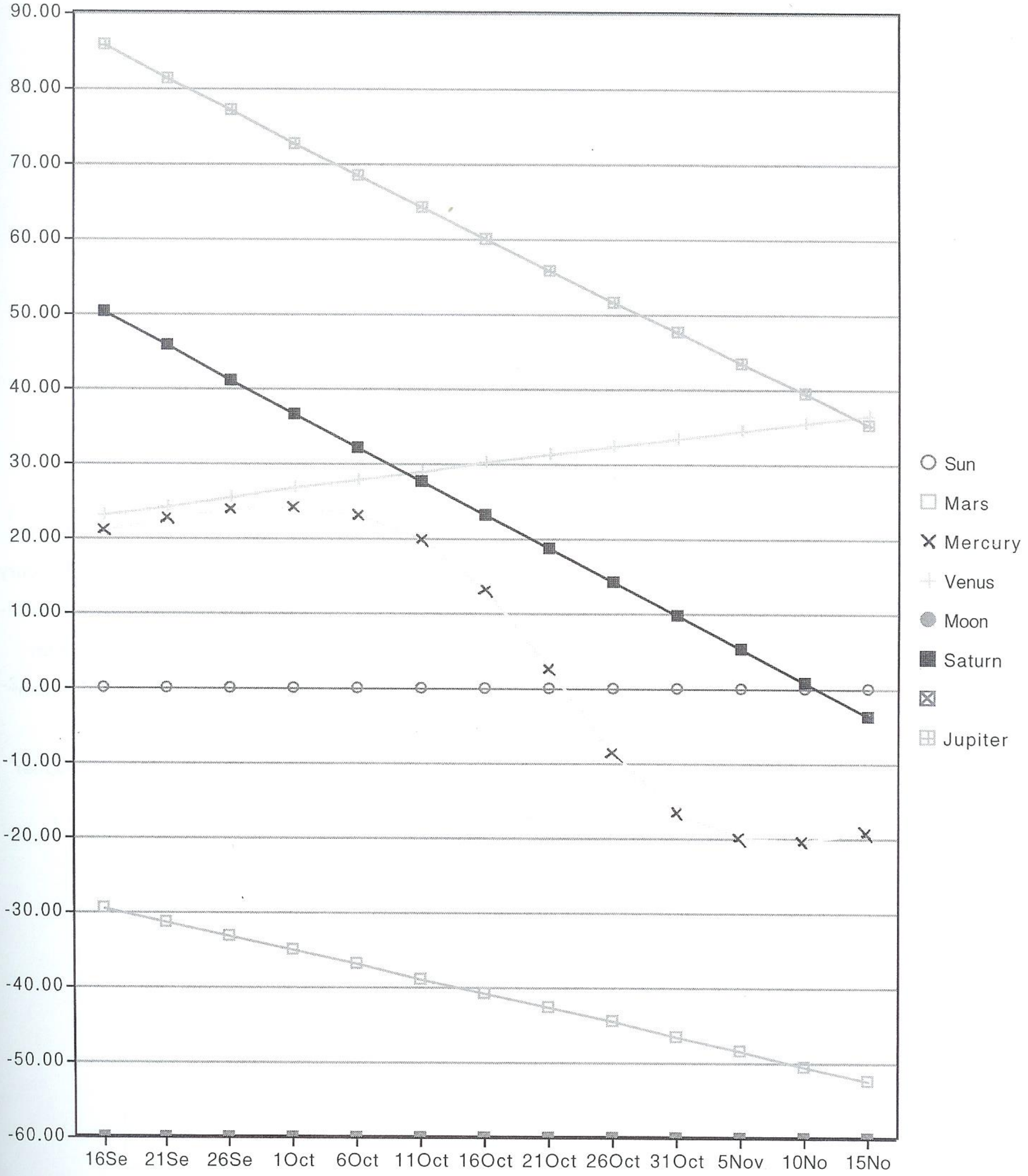
Elongations from Sun. Negative is Morning Star. "Fire Enters the House" date as actually written Yax. L.56 (9.15.6.19.1 = 9.15.7.1.1) may be intended in addition to the 7 Imix, perhaps not an error, since 3 planets are morn. stars not far before the Sun, Mars & Saturn recently emerged, and Mercury was just emerging as evening star.

Gregorian		Sat 6 August 738 A.D.
Julian		2 August 738 A.D.
Mayan	9.15.7.1.1	10 Imix 19 Ch'en
Correlation Constant		584,285



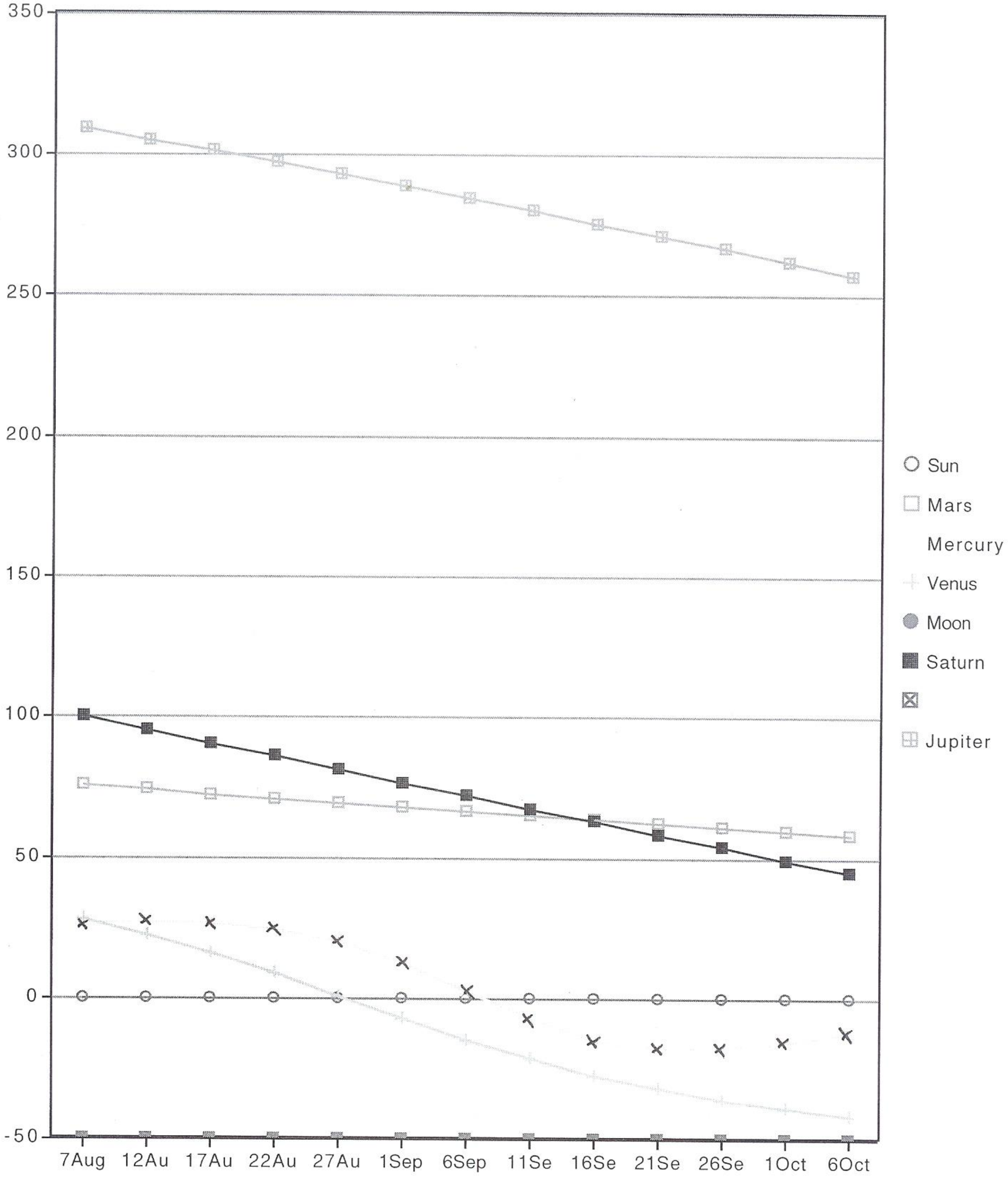
Elongations from Sun. Negative is Morning Star.
Piedras Negras Throne 1,
The "Lightning House" (cha-hu-ku-NAJ),
house of PN Ruler 6, was "censed" (el-naj?).
Mercury near conjunction with the Sun
4 days later.

Gregorian		Wed 6 November 785 A.D.
Julian		2 November 785 A.D.
Mayan	9.17.15.0.0	5 Ahau 3 Muan
Correlation Constant		584,285



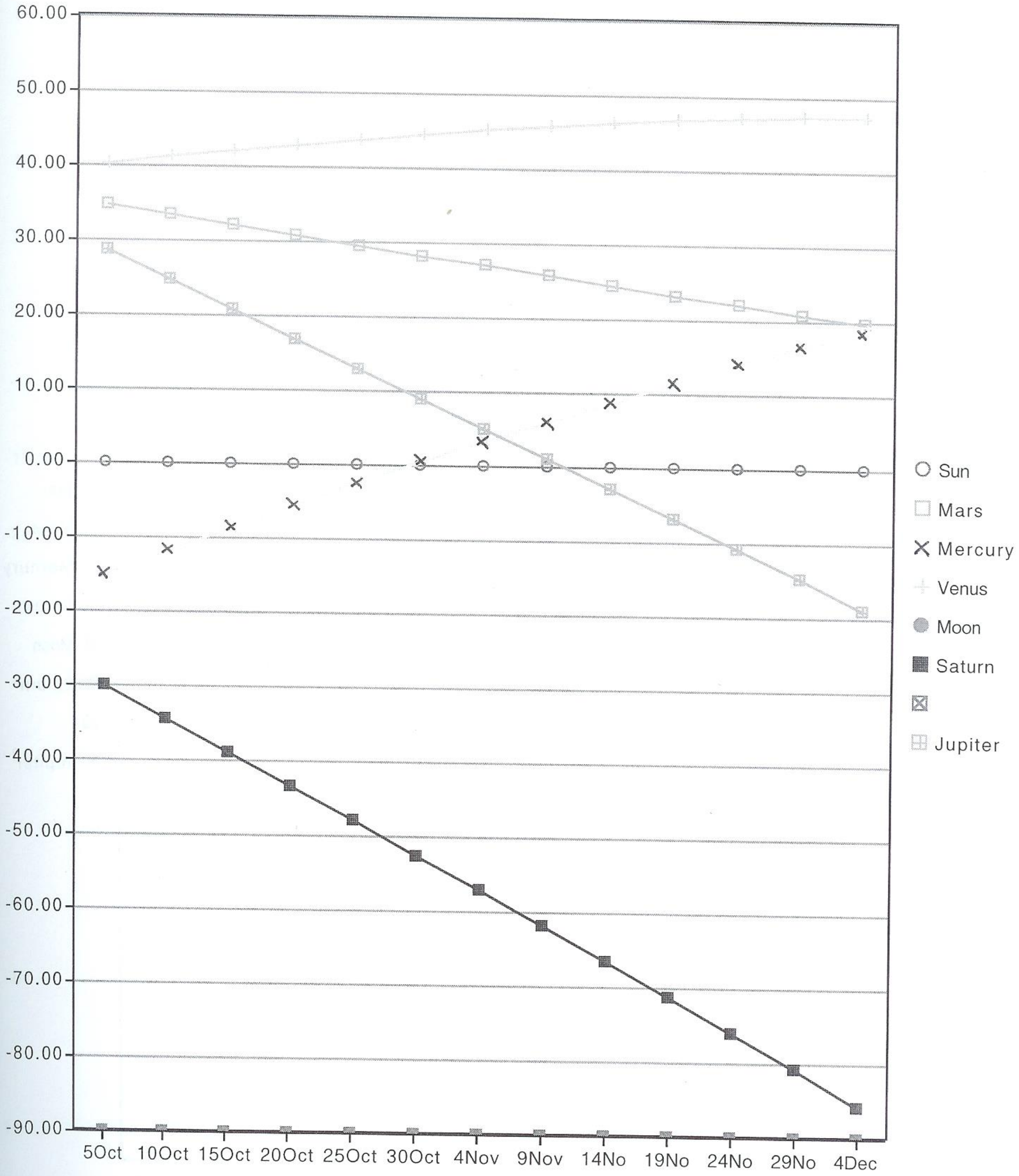
Elongations from Sun. Negative is Morning Star.
Yaxchilan Lintel 21, The (named) house of the 7th ruler ("Moon Skull") was "censed".
Mercury in conj. with the Sun 7 days later.

Gregorian	Fri 16 October 454 A.D.
Julian	15 October 454 A.D.
Mayan	9.0.19.2.4 2 Kan 2 Yax
Correlation Constant	584,285



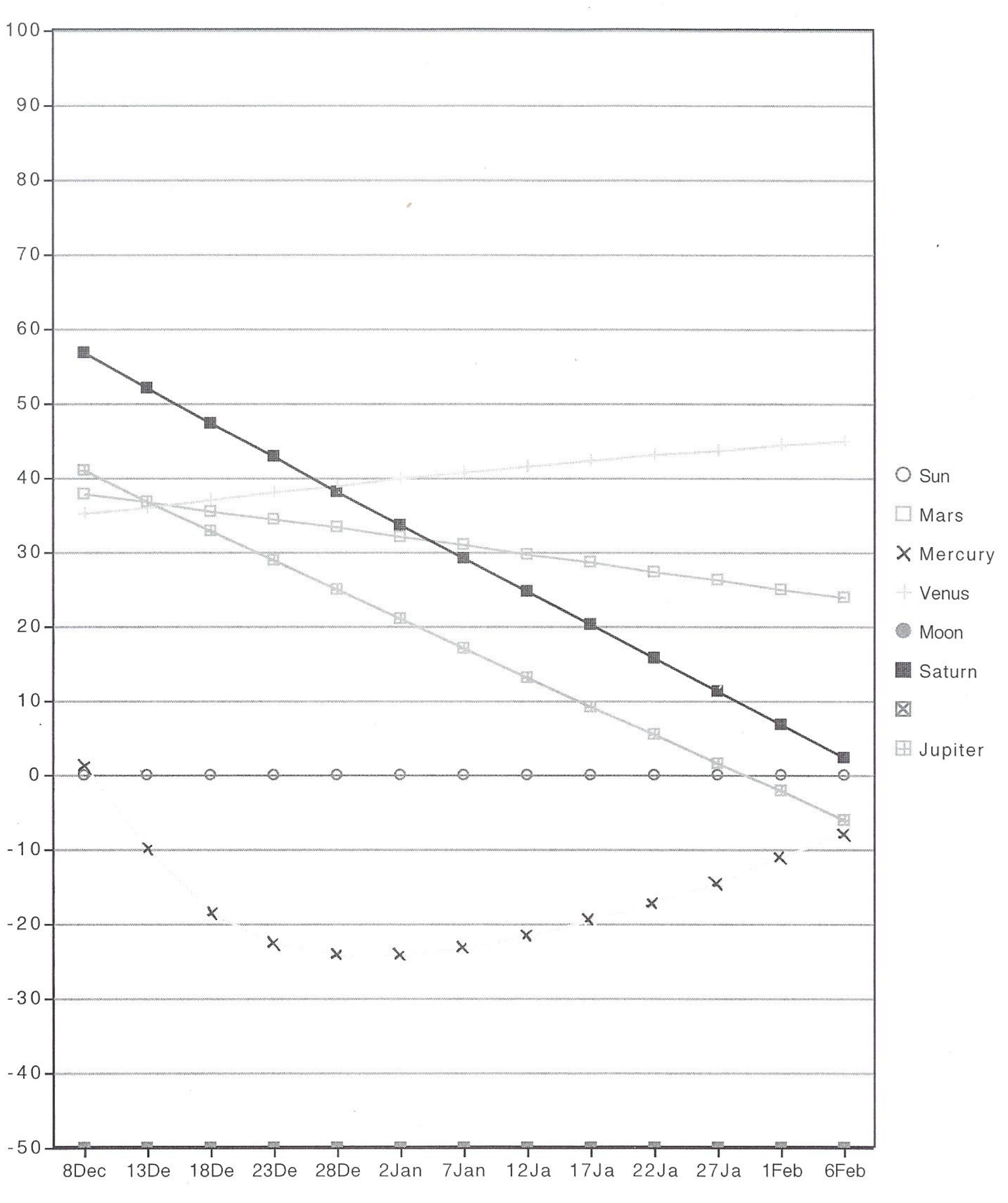
Elongations from Sun. Negative is Morning Star.
Palenque House A-D, och k'ahk'
Mercury in inferior conj. with Sun 1 day later.
Venus had just emerged from infer. conj. with Sun.

Gregorian	Mon 6 September 720 A.D.	
Julian	2 September 720 A.D.	
Mayan	9.14.8.15.18	6 Etz'nab 6 Zac
Correlation Constant	584,285	



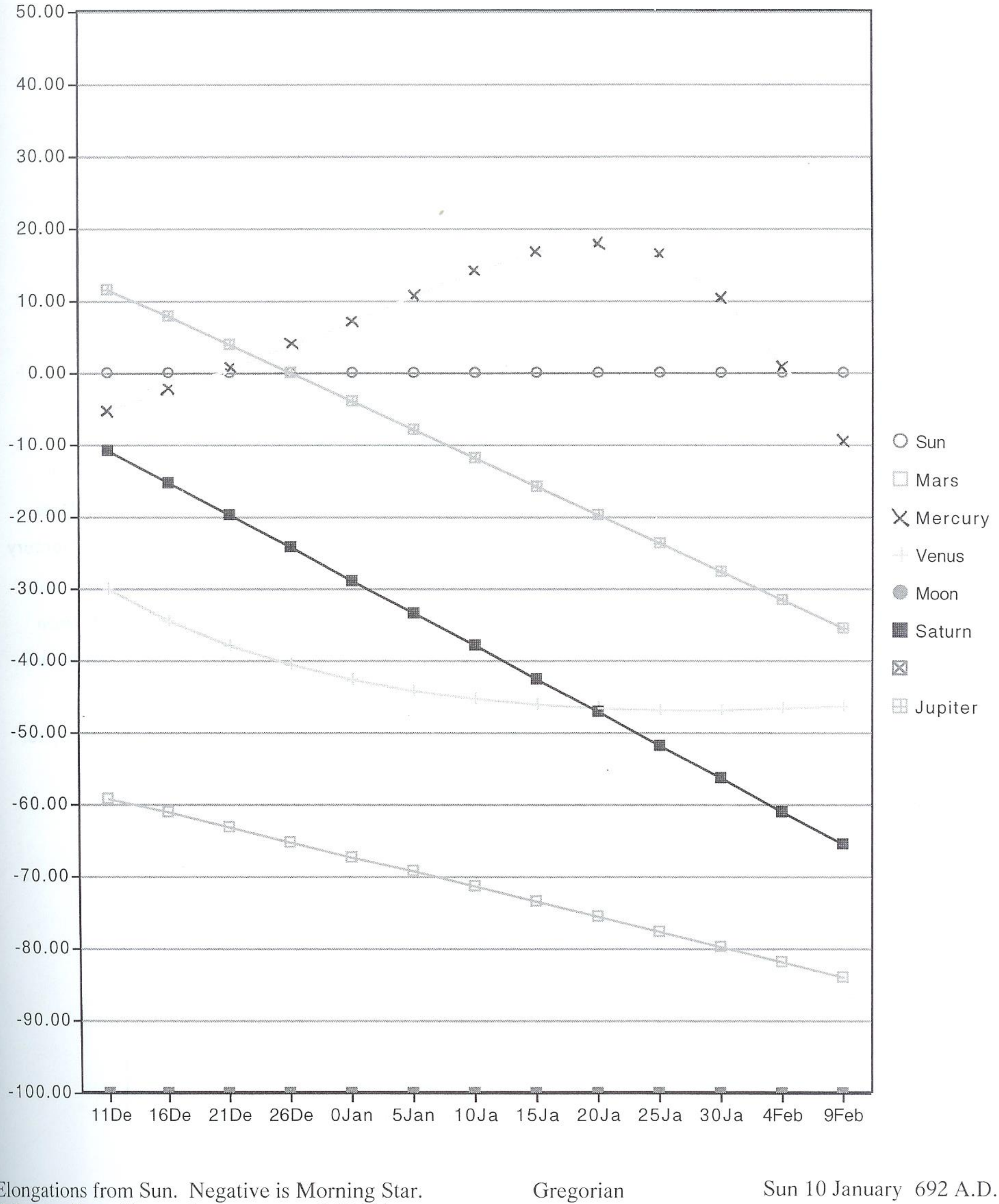
Elongations from Sun. Negative is Morning Star.
Palenque House E och k'ahk'
Mercuy in conj. with Sun 6 days earlier.
Jupiter falling into conj. with Sun 6 days later.

Gregorian	Sat 4 November 654 A.D.	
Julian	1 November 654 A.D.	
Mayan	9.11.2.1.11	9 Chuen 9 Mac
Correlation Constant	584,285	



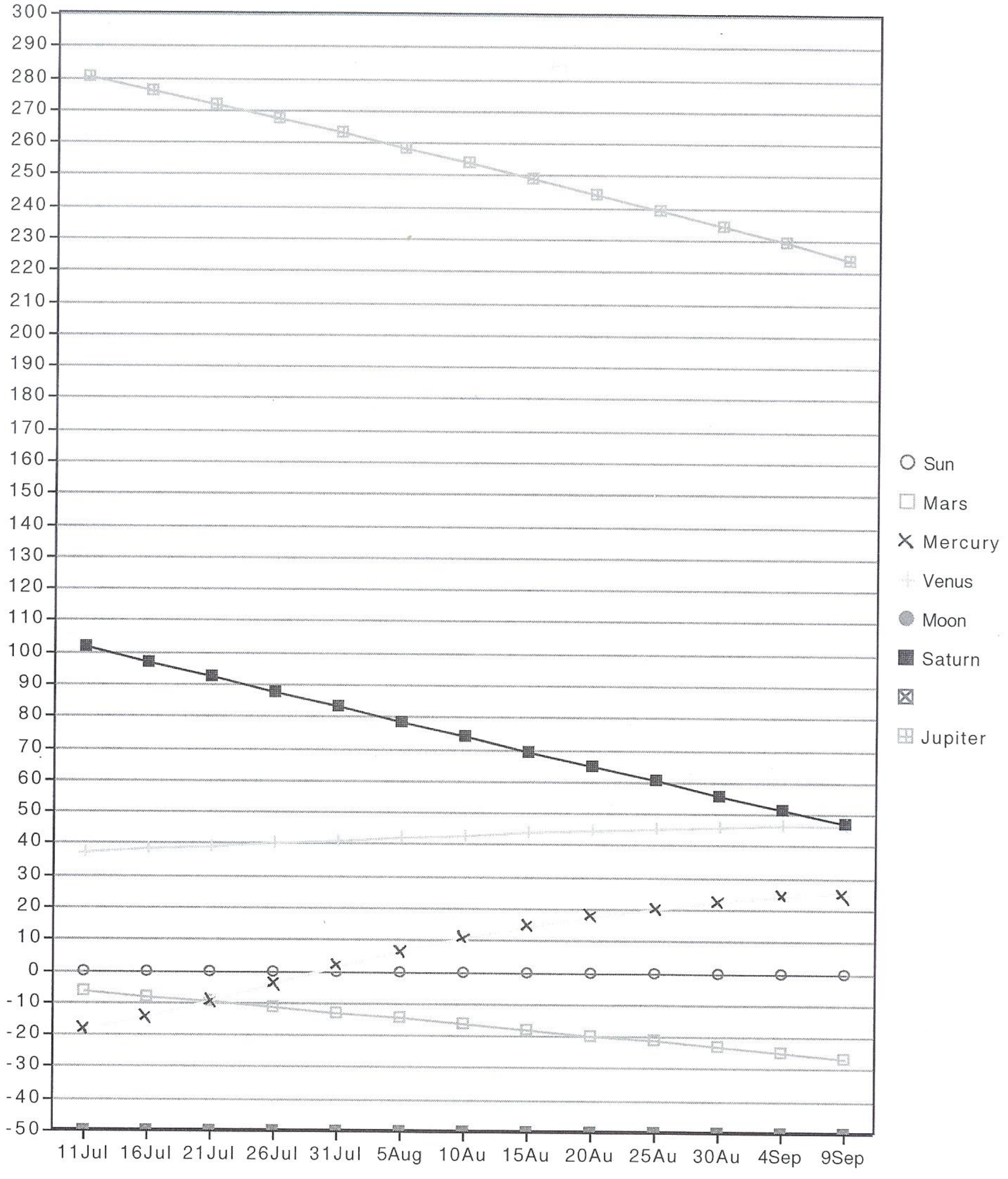
Elongations from Sun. Negative is Morning Star.
Palenque House C, eaves, /och naj/ not /och k'ahk'/
Mercury around 7 days after maximum elongation as morning star

Gregorian	Sun 7 January	610 A.D.
Julian	4 January	610 A.D.
Mayan	9.8.16.10.19	4 Cauac 2 Pax
Correlation Constant		584,285



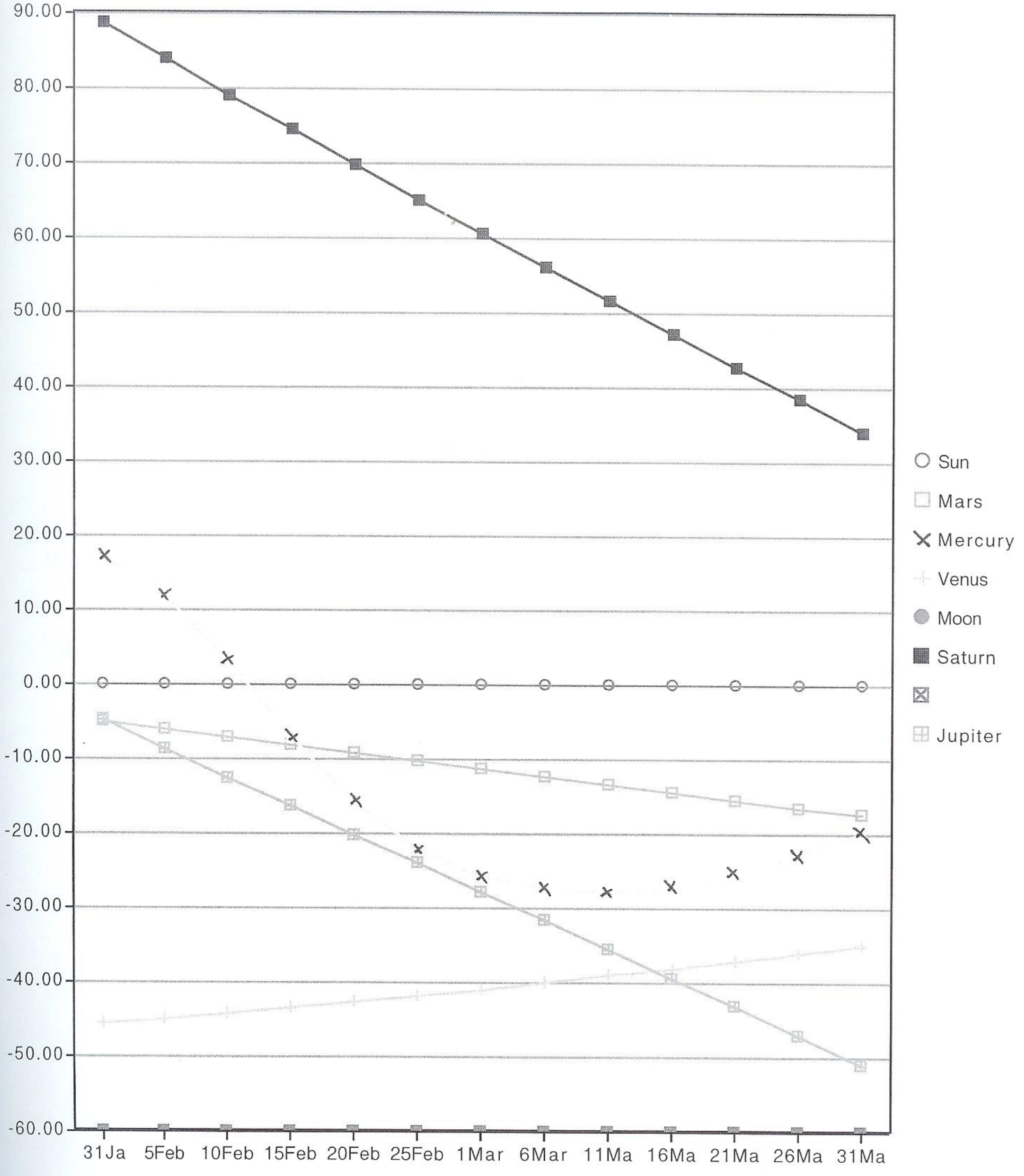
Elongations from Sun. Negative is Morning Star.
Palenque Cross Group, three events och k'ahk',
och naj, and pat-l-aj
No significant conjunctions with Sun,
although Jupiter only just emerging from it.

Gregorian	Sun 10 January	692 A.D.
Julian	7 January	692 A.D.
Mayan	9.12.19.14.12	5 Eb 5 Kayab
Correlation Constant		584,285



Elongations from Sun. Negative is Morning Star.
Palenque House C, east steps, /pat-l-aj/
Mercury is emerging as evening star
(12 days after superior conjunction with Sun).

Gregorian		Wed 10 August 659 A.D.
Julian		7 August 659 A.D.
Mayan	9.11.6.16.11	7 Chuen 4 Ch'en
Correlation Constant		584,285



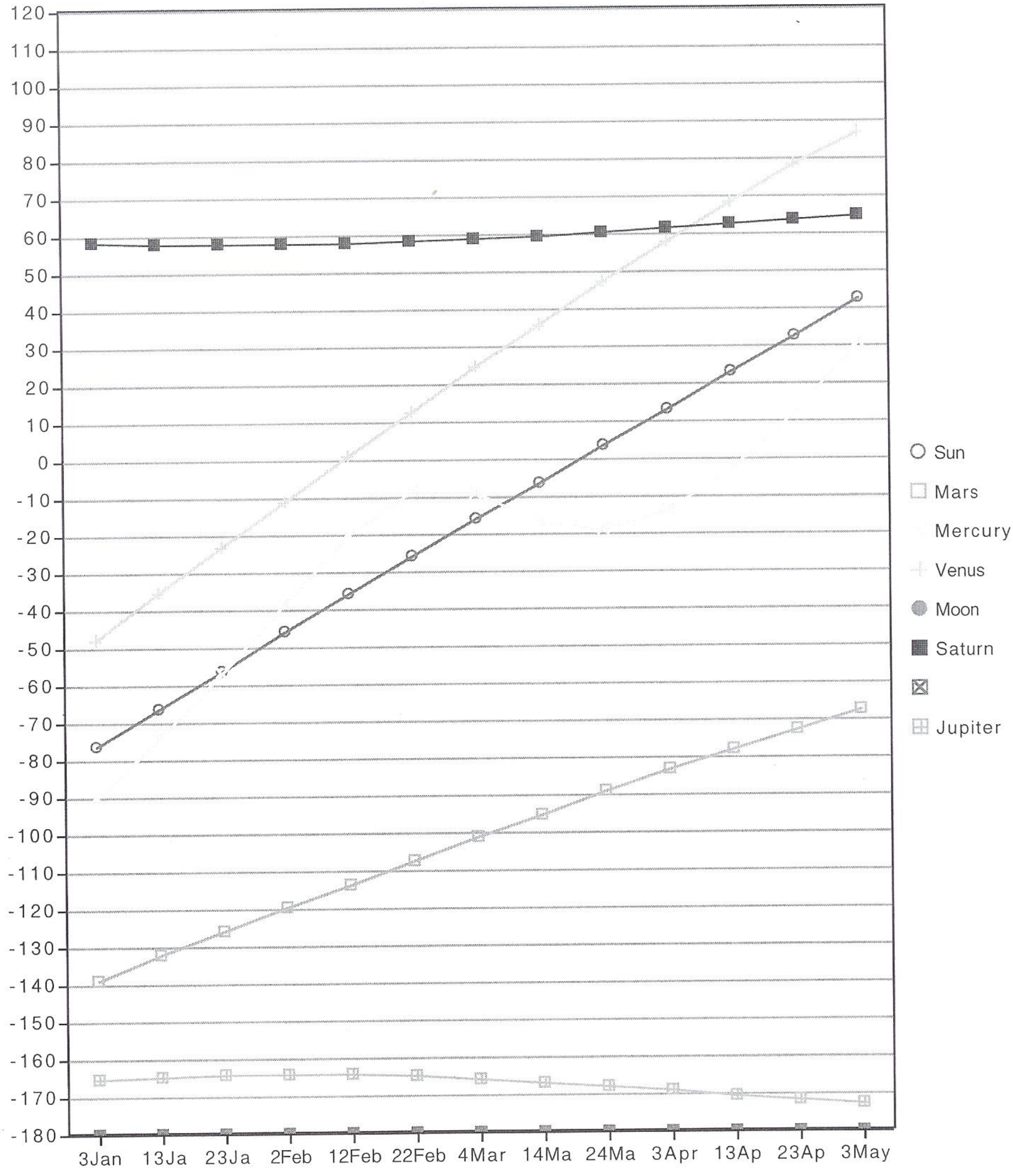
Elongations from Sun. Negative is Morning Star. Yaxchilan L.31 (9.16.13.0.0) 2 Ajaw 8 Wo och k'ahk' Mercury not near conjunciton with the Sun, but Venus and 3 other planets below it as morning stars, Mars perhaps of these the most recently become visible.

Gregorian	Sun 1 March	764 A.D.
Julian	26 February	764 A.D.
Mayan	9.16.13.0.0	2 Ahau 8 Uo
Correlation Constant		584,285

Appendix F.

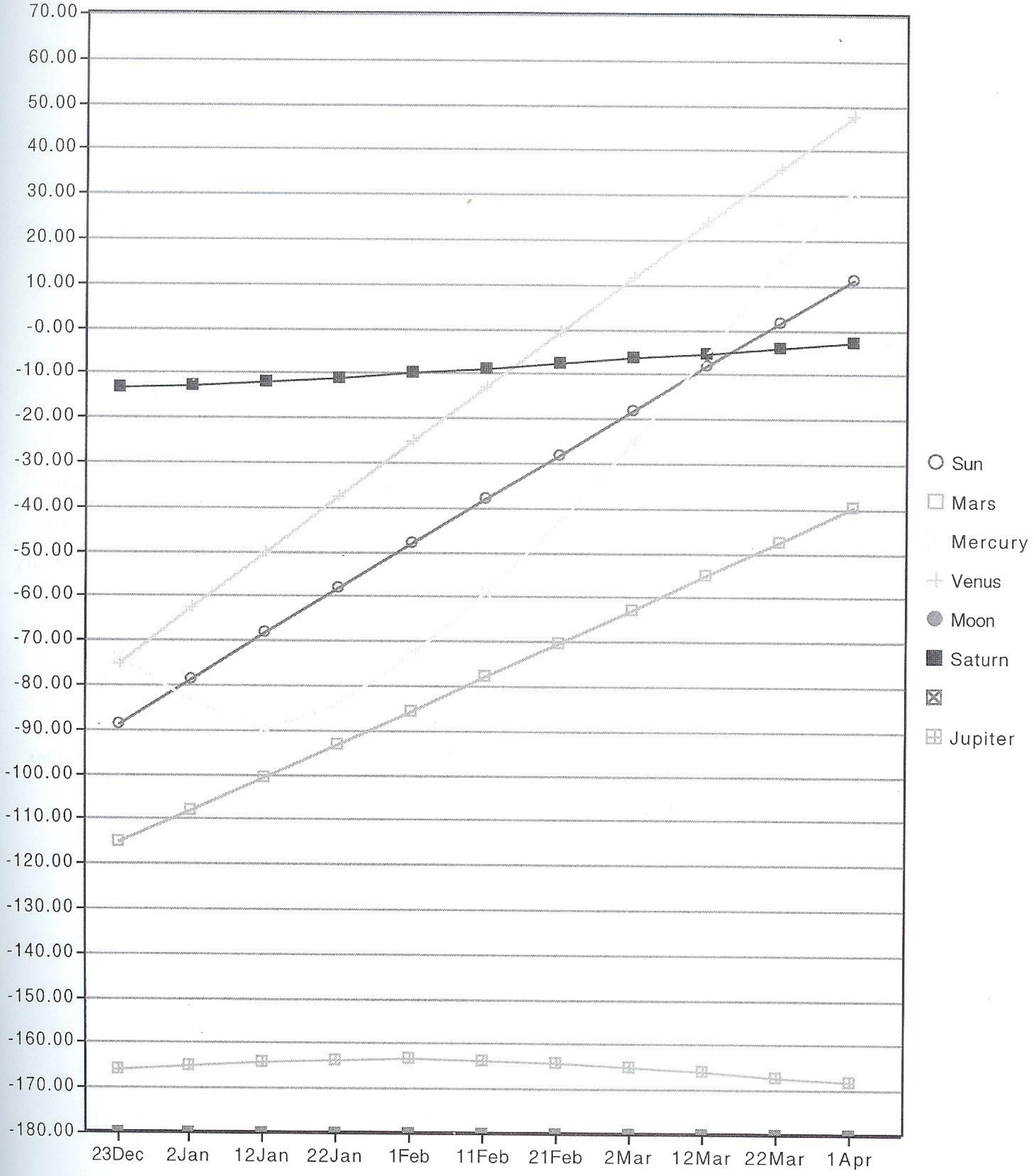
Some 819-Day Counts Just After Stationary Points of Jupiter

Since 819-day counts contain a *K'awiil* glyph, and we here link *K'awiil* with Jupiter,
we would expect these recorded dates to have some reference to the synodic cycle of Jupiter.
In fact, there may be such a connection.
Using so far only the small sample from which Thompson initially established the 819-day cycle,
three out of six cases were shortly after Jupiter's first (not second) stationary point.
These graphs are discussed briefly in Endnote 2, but are not the focus of this work.
We suspect a link with the "Burner" periods, specifically with the Burner "taking up the fire".



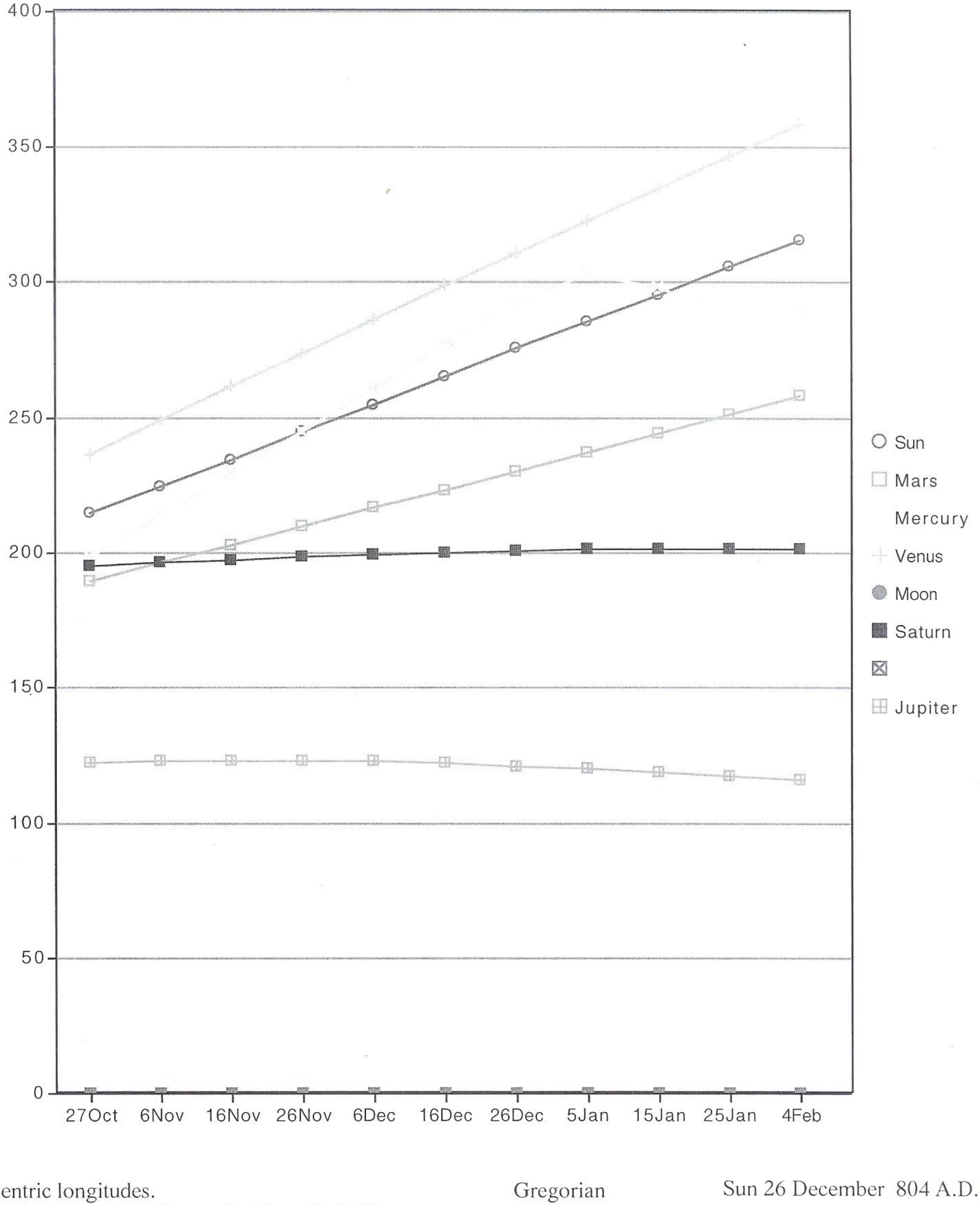
Geocentric longitudes.
The 819-day-count station at Palenque (Thompson 1960:212). This station was approximately 35 days after Jupiter's first stationary point.

Gregorian		Sun 4 March 677 A.D.
Julian		1 March 677 A.D.
Mayan	9.12.4.13.7	1 Manik 10 Pop
Correlation Constant		584,285



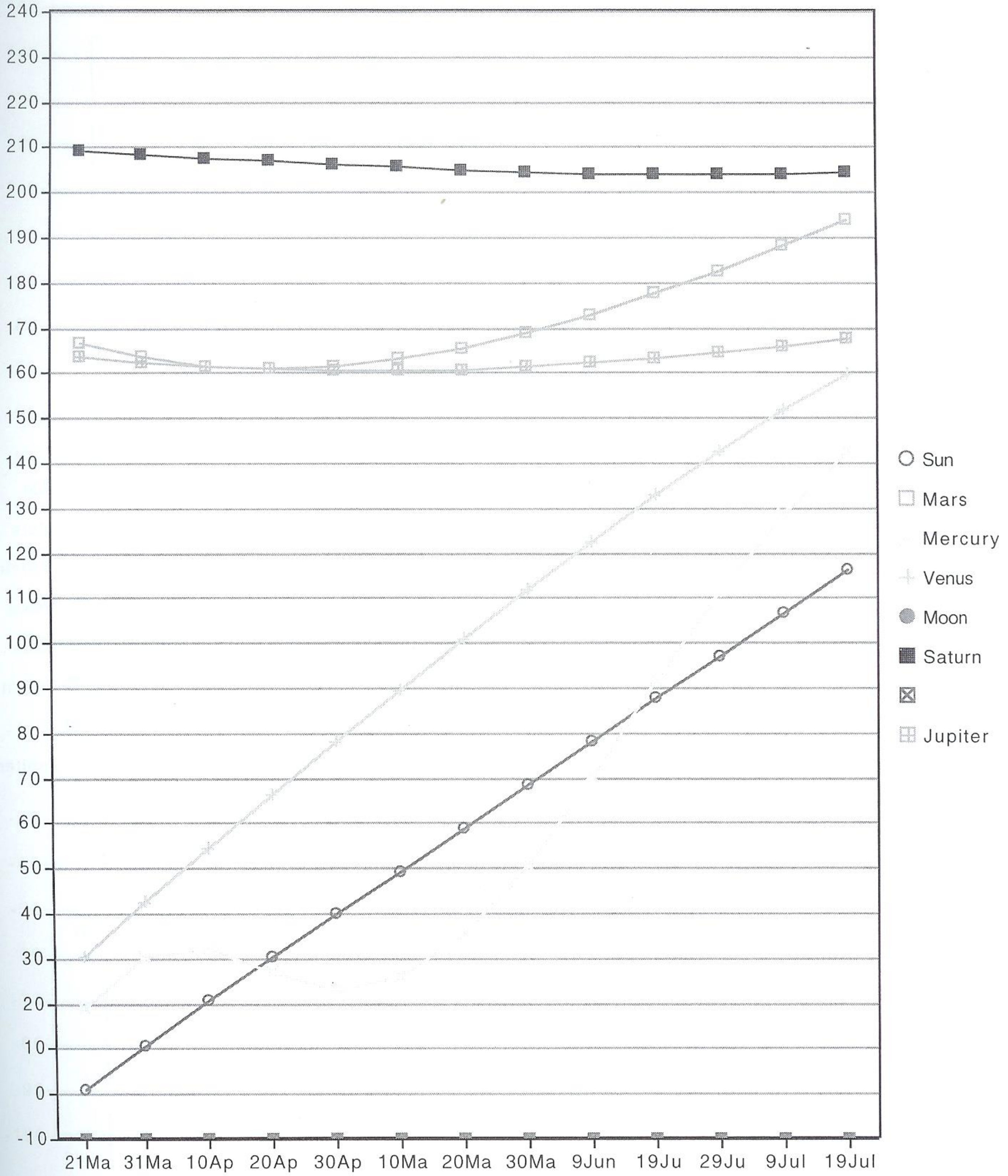
Geocentric longitude.
The 819-day-count station on Yaxchilan Stela 1, at E2-E7. This station was approximately 20 days after Jupiter's first stationary point.

Gregorian	Sun 21 February	760 A.D.
Julian	17 February	760 A.D.
Mayan	9.16.8.16.10	1 Oc 18 Pop
Correlation Constant		584,285



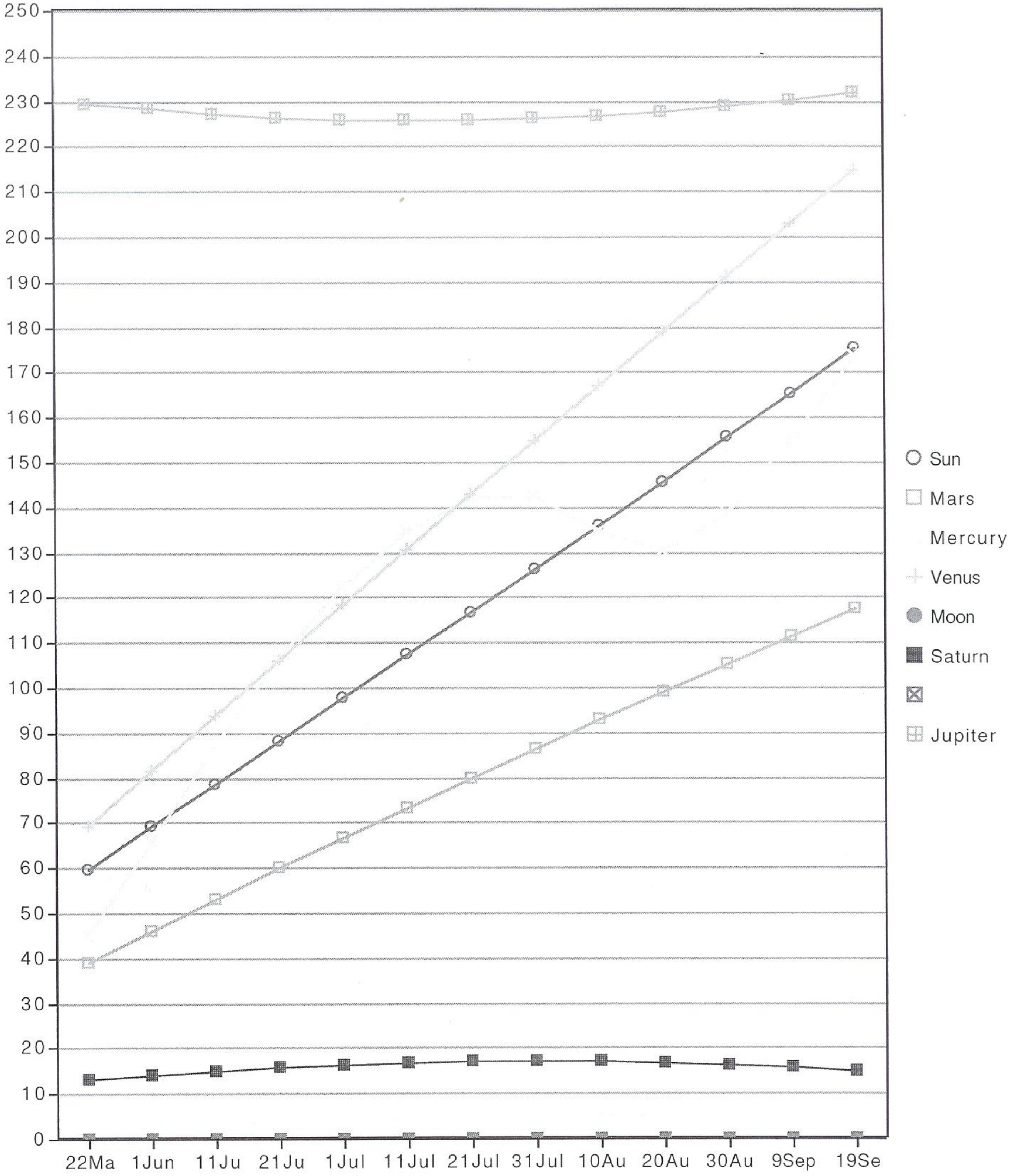
Geocentric longitudes.
The 819-day-count station on Quirigua Stela K, at B6b-C2a. This station was approximately 35 days after Jupiter's first stationary point.

Gregorian	Sun 26 December		804 A.D.
Julian	22 December		804 A.D.
Mayan	9.18.14.7.10	1 Oc	18 Kayab
Correlation Constant			584,285



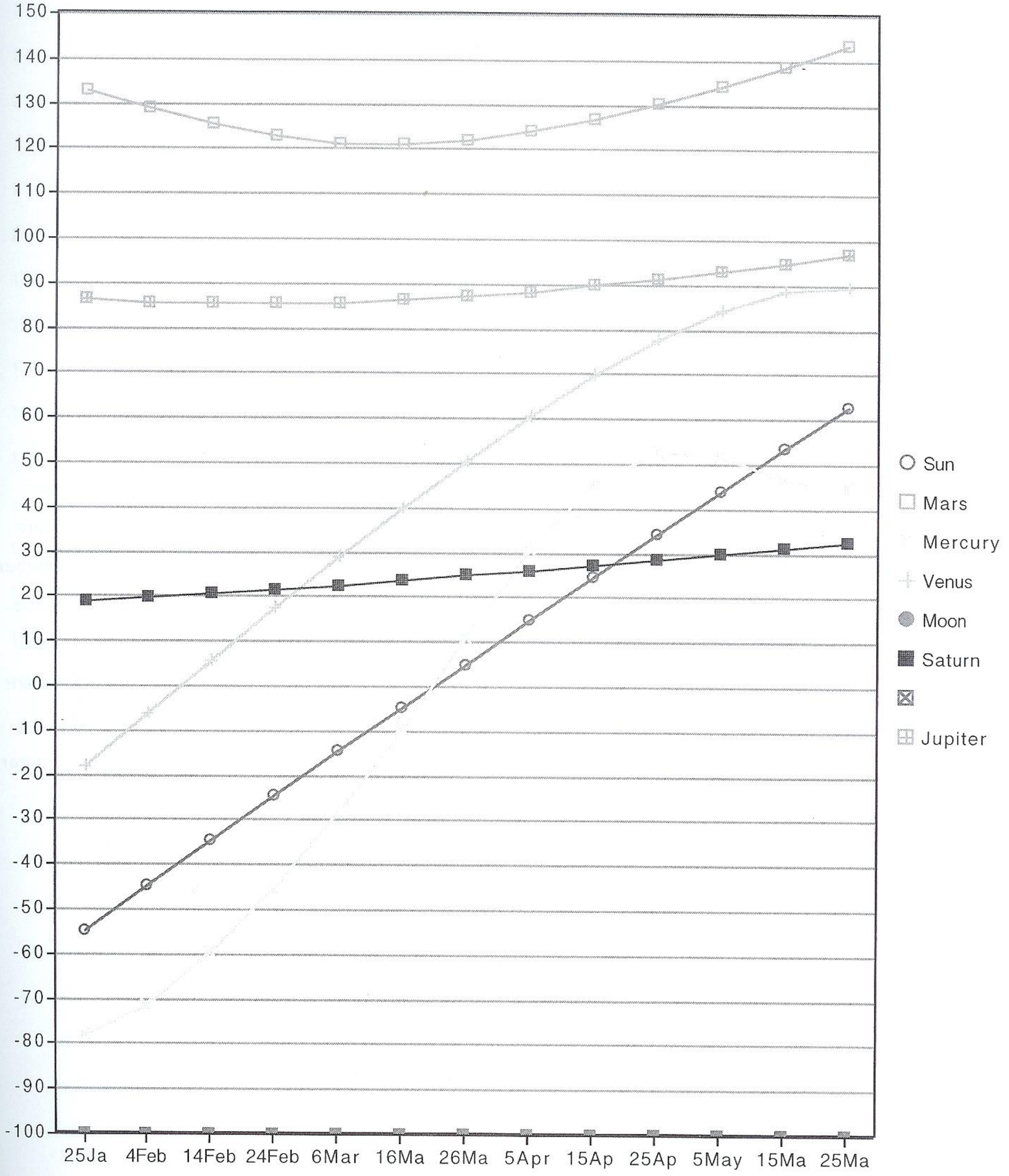
Geocentric longitudes.
The 819-day-count station preceding the triple conjunction of 2 Kib 14 Mol. This station was approximately 10 days after Jupiter's second stationary point, 30 days after that of Mars. It was approximately 35 days before that of Saturn.

Gregorian	Sun 20 May	688 A.D.
Julian	17 May	688 A.D.
Mayan	9.12.16.2.2	1 Ik 10 Zec
Correlation Constant		584,285



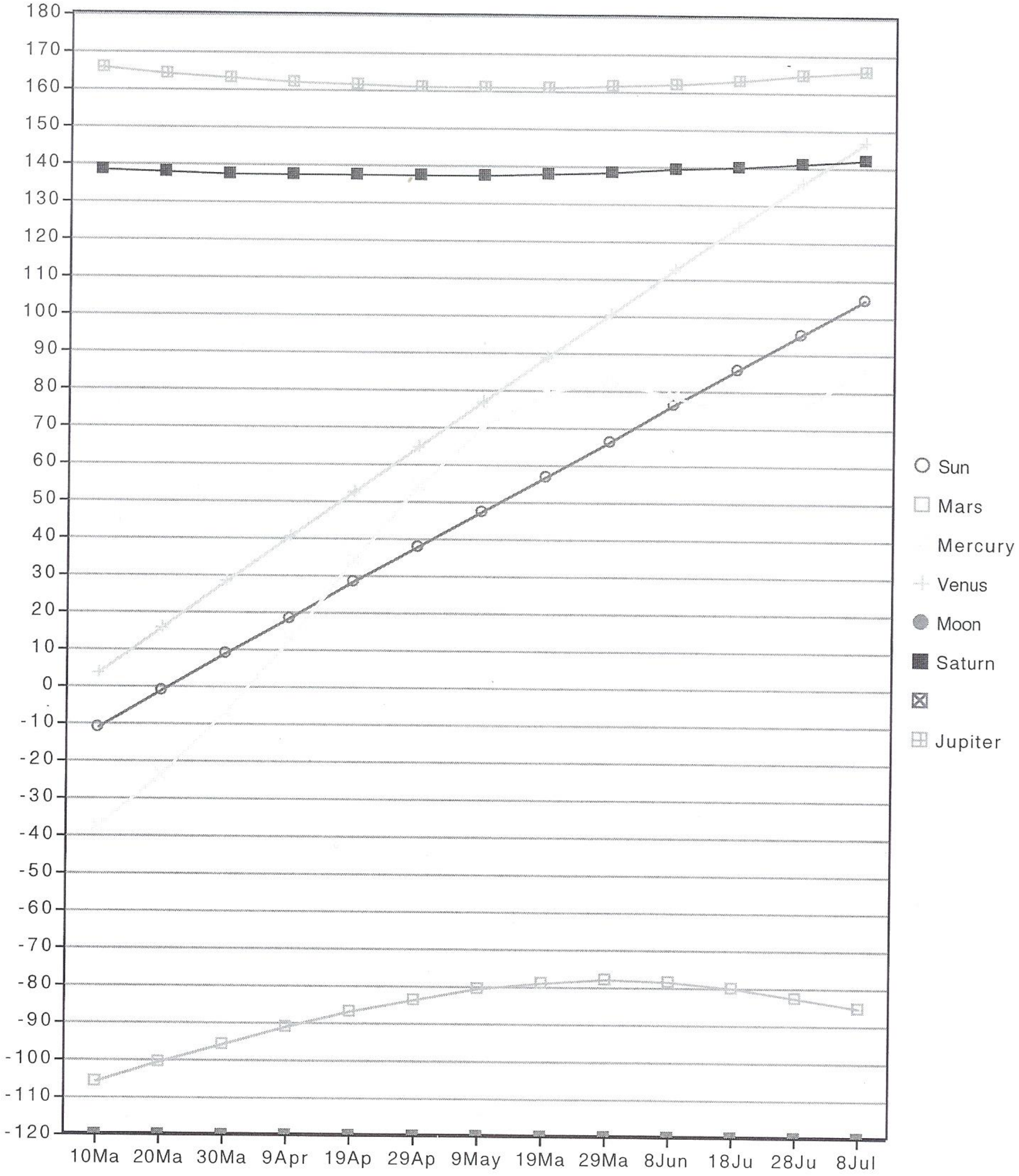
Geocentric longitudes.
The 12th 365-day anniversary of the 2 Kib 14 Mol event. This is approximately 8 days after Jupiter's second stationary point, and approximately 10 days before Saturn's first stationary point. It is 260 days after a theoretical 819-day-count station, of course also a day "1 Kib".

Gregorian		Mon 21 July 702 A.D.
Julian		17 July 702 A.D.
Mayan	9.13.10.8.16	1 Cib 14 Mol
Correlation Constant		584,285



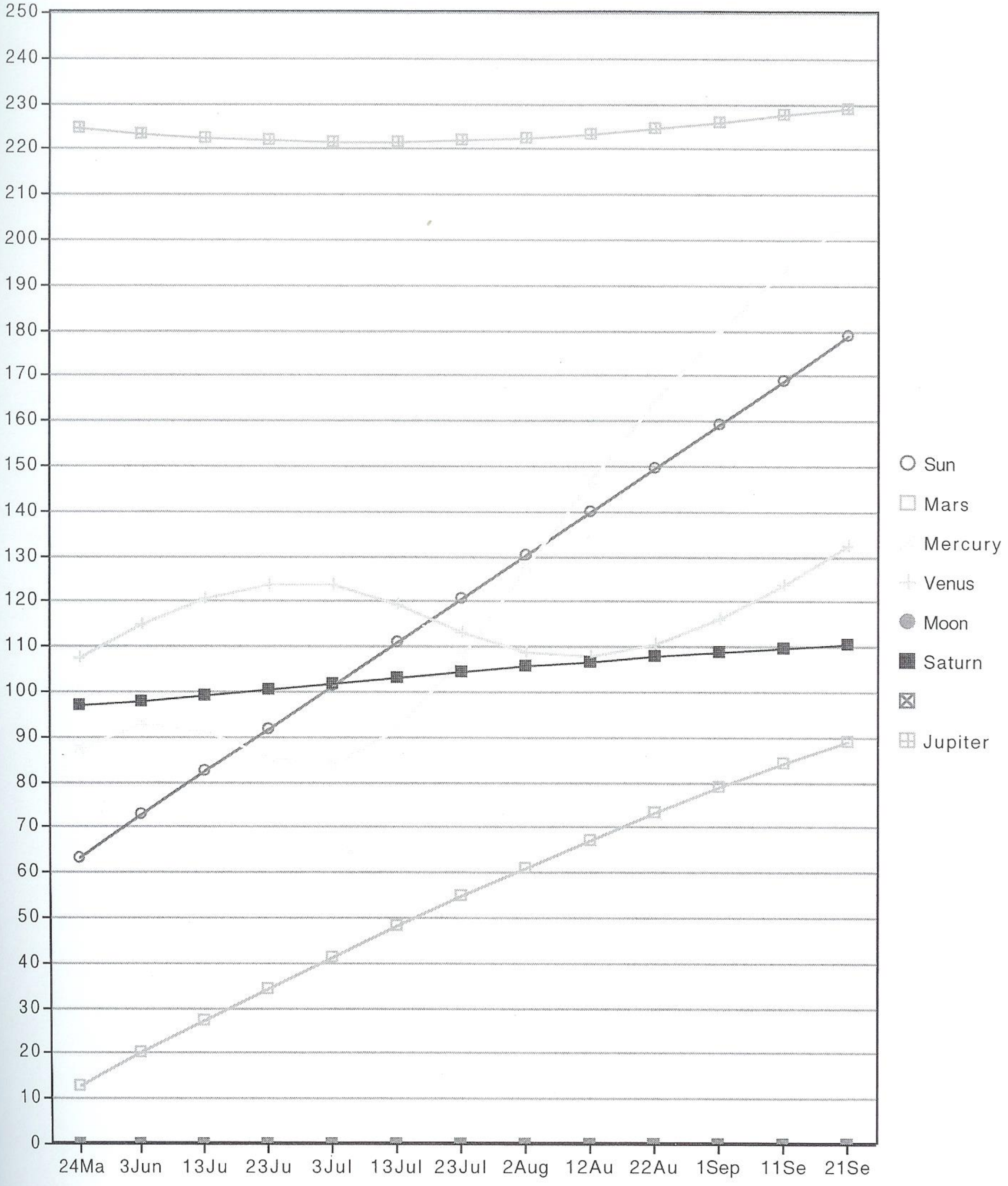
Geocentric longitudes.
The 819-day-count station which would have occurred 20 x 819 after that for the 2 Kib 14 Mol event. This station was approximately 35 days after Jupiter's second stationary point, 14 days after that for Mars. Was it recorded anywhere?

Gregorian	Sun 26 March	733 A.D.
Julian	22 March	733 A.D.
Mayan	9.15.1.11.2	1 Ik 5 Zip
Correlation Constant		584,285



Geocentric longitudes. This date is 4.4.3.3 (37 x 819, or 75 x 398.867 less 10.90 days) after the 819-day-count station before the 2 Kib 14 Mol event. Jupiter was at its second stationary point. Saturn's second stationary was about 20 days earlier., and Mars had its first stationary point 22 days later.

Gregorian		Sun 9 May 771 A.D.
Julian		5 May 771 A.D.
Mayan	9.17.0.5.5	1 Chicchan 18 Zec
Correlation Constant		584,285



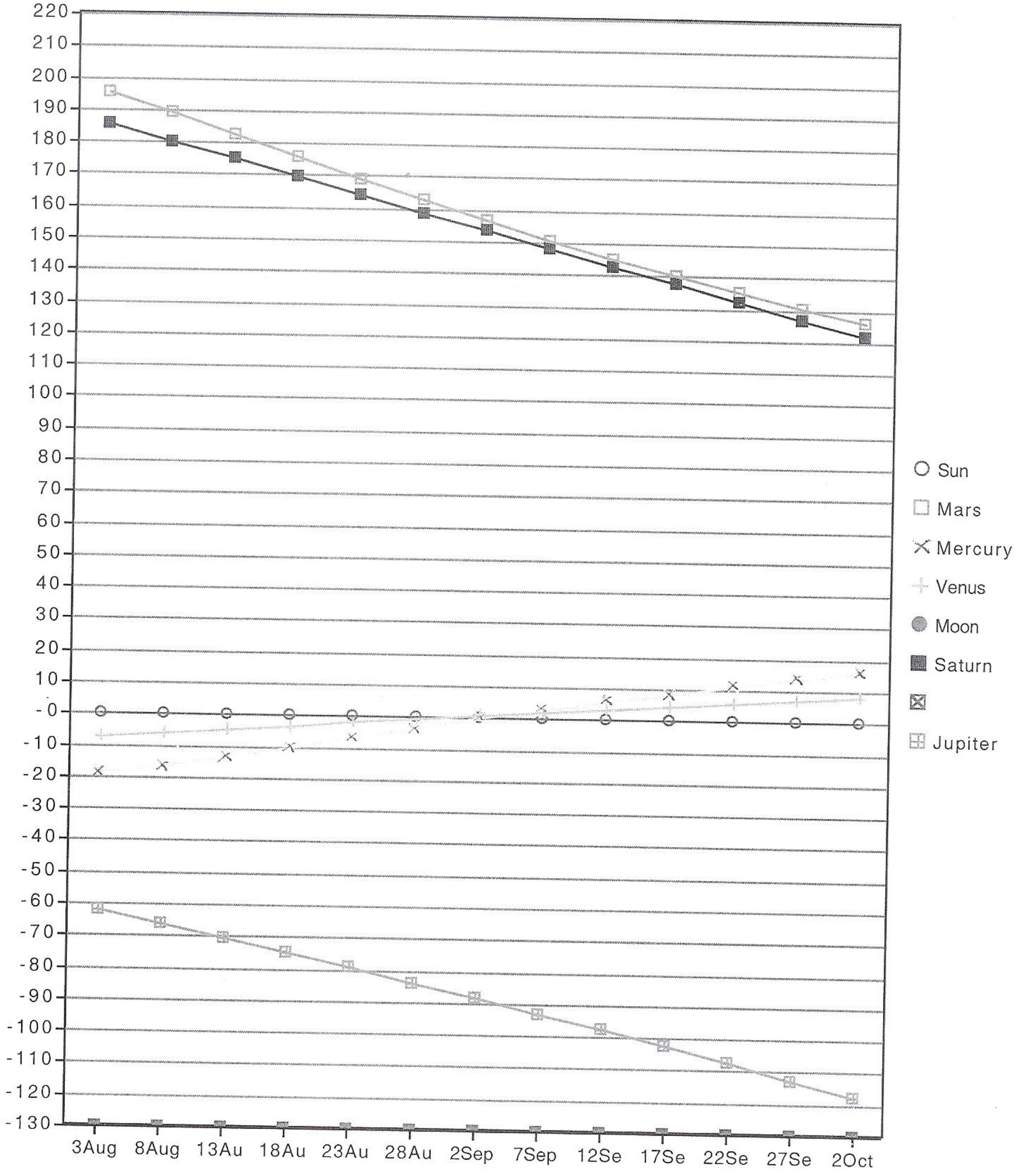
Geocentric longitudes. This date is 8.10.11.5 (75 x 819, or 153 x 398.867 less 0.54 days) after the 819-day-count station before the 2 Kib 14 Mol event. Jupiter was approximately 15 days after its second stationary point.

Gregorian		Sun 23 July	856 A.D.
Julian		19 July	856 A.D.
Mayan	10.1.6.13.7	1 Manik	15 Yax
Correlation Constant			584,285

Appendix G.

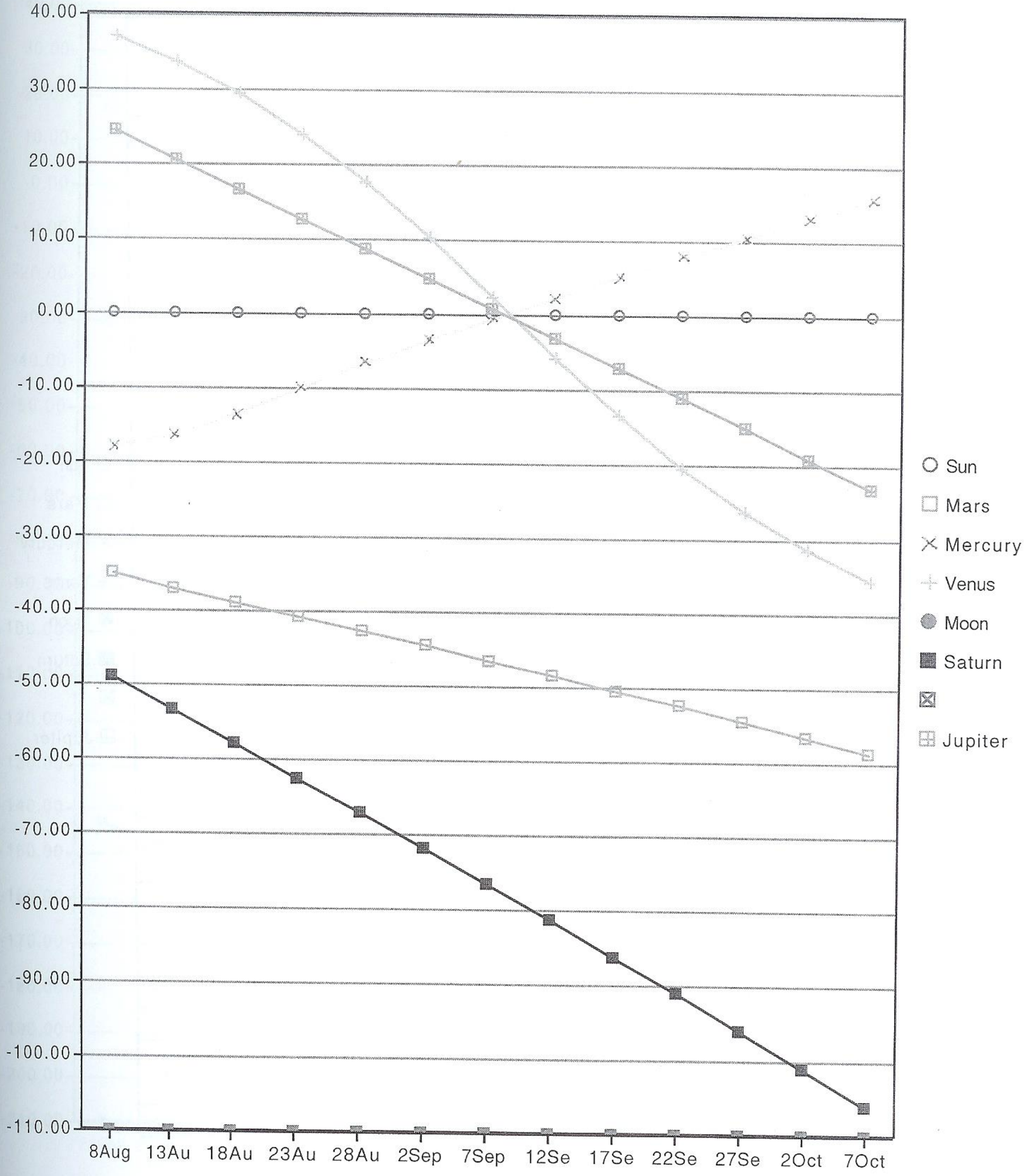
The Date “9 Ik’ ” on Classical Monumental Texts

This day name is used symbolically in a number of instances.
It appears to refer to Venus and Mercury together,
often passing through conjunctions with the Sun, but not always.
It is usually, but not always literally a date.



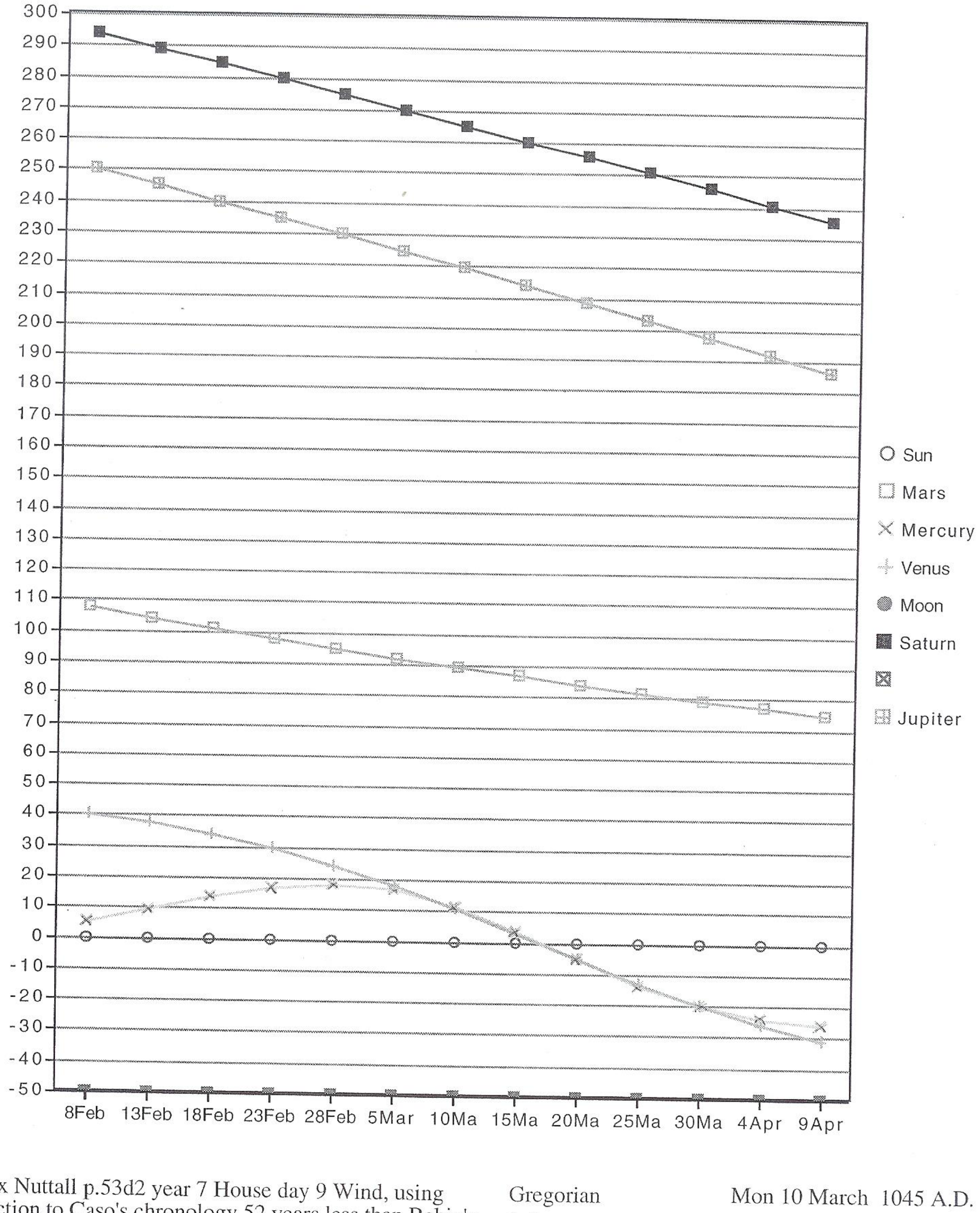
Palenque Temple of the Cross. Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Stated distance number leads to this date labeled 9 Ik'! Venus and Mercury in superior conjunction with Sun. Moon is a new crescent 2 days old.

Gregorian	Sun 2 September	2305 B.C.
Julian	22 September	2305 B.C.
Mayan	2.1.0.15.2	3 Ik 0 Zac
Correlation Constant		584,285



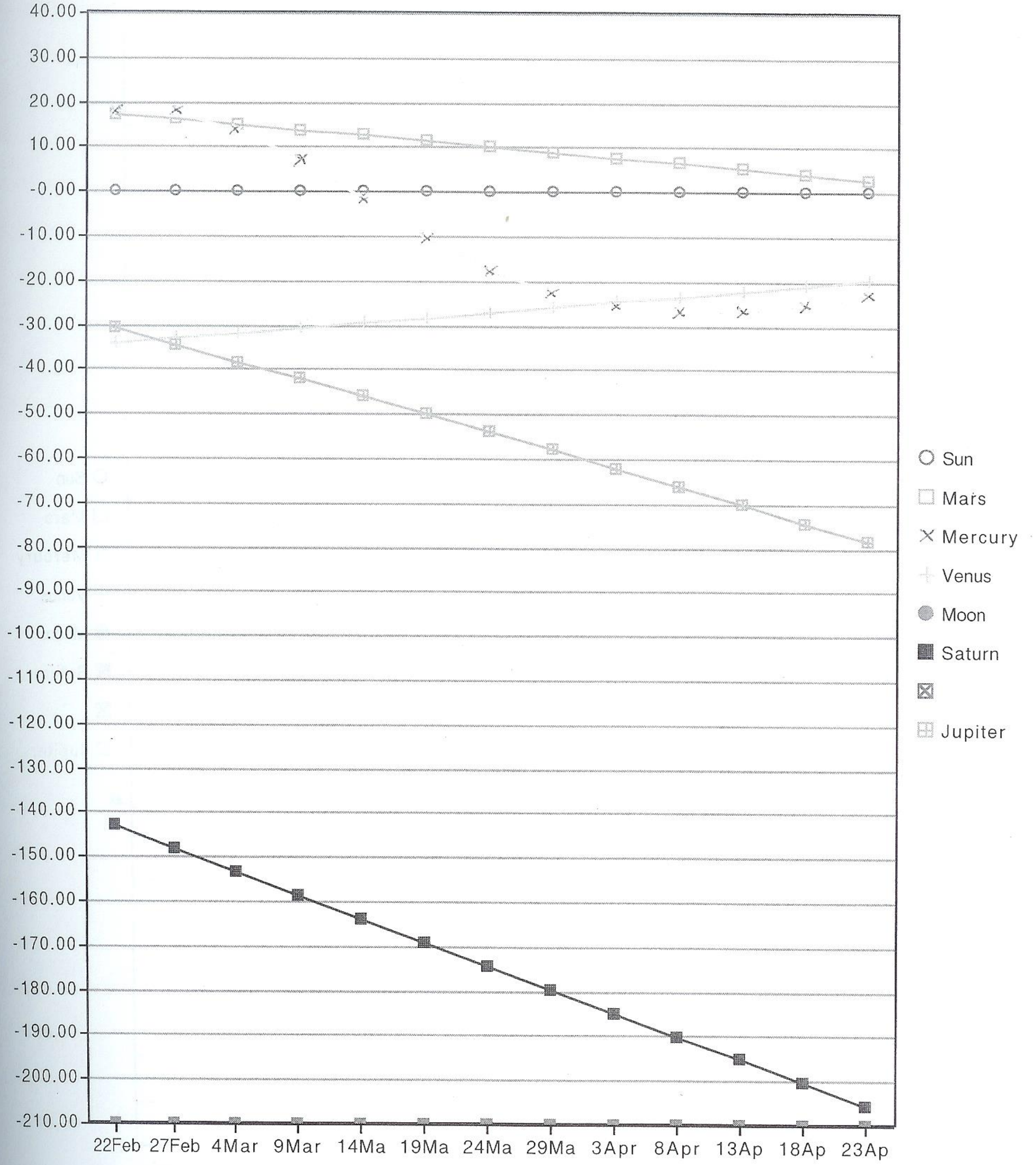
Palenque Temple of the Cross. Elongations from Sun. Positive is Evening Star. Negative is Morning Star. 9 Ik' 0 Sak if assumed correct as on Temple XVIII jambs, Temple XIX, Palace House E painted band. Two days after planetary conjunctions with the Sun is New Moon.

Gregorian	Mon 7 September	2325 B.C.
Julian	27 September	2325 B.C.
Mayan	2.0.0.10.2	9 Ik 0 Zac
Correlation Constant		584,285



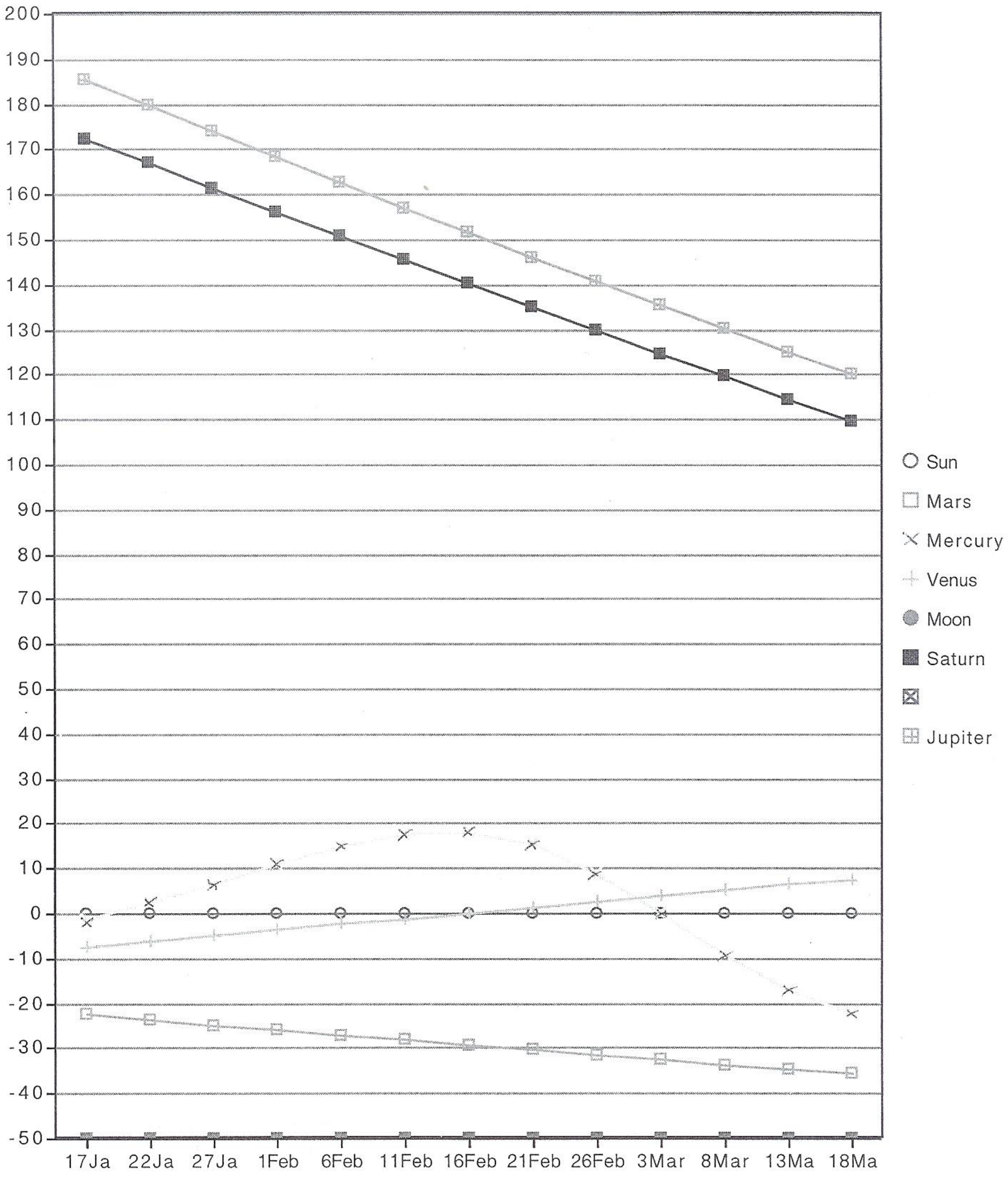
Codex Nuttall p.53d2 year 7 House day 9 Wind, using correction to Caso's chronology 52 years less than Rabin's.
Venus and Mercury disappear simultaneously.
Elongations from Sun.
Positive is Evening Star. Negative is Morning Star.

Gregorian	Mon 10 March	1045 A.D.
Julian	4 March	1045 A.D.
Mayan	10.10.18.2.2	9 Ik 5 Xul
Correlation Constant		584,285



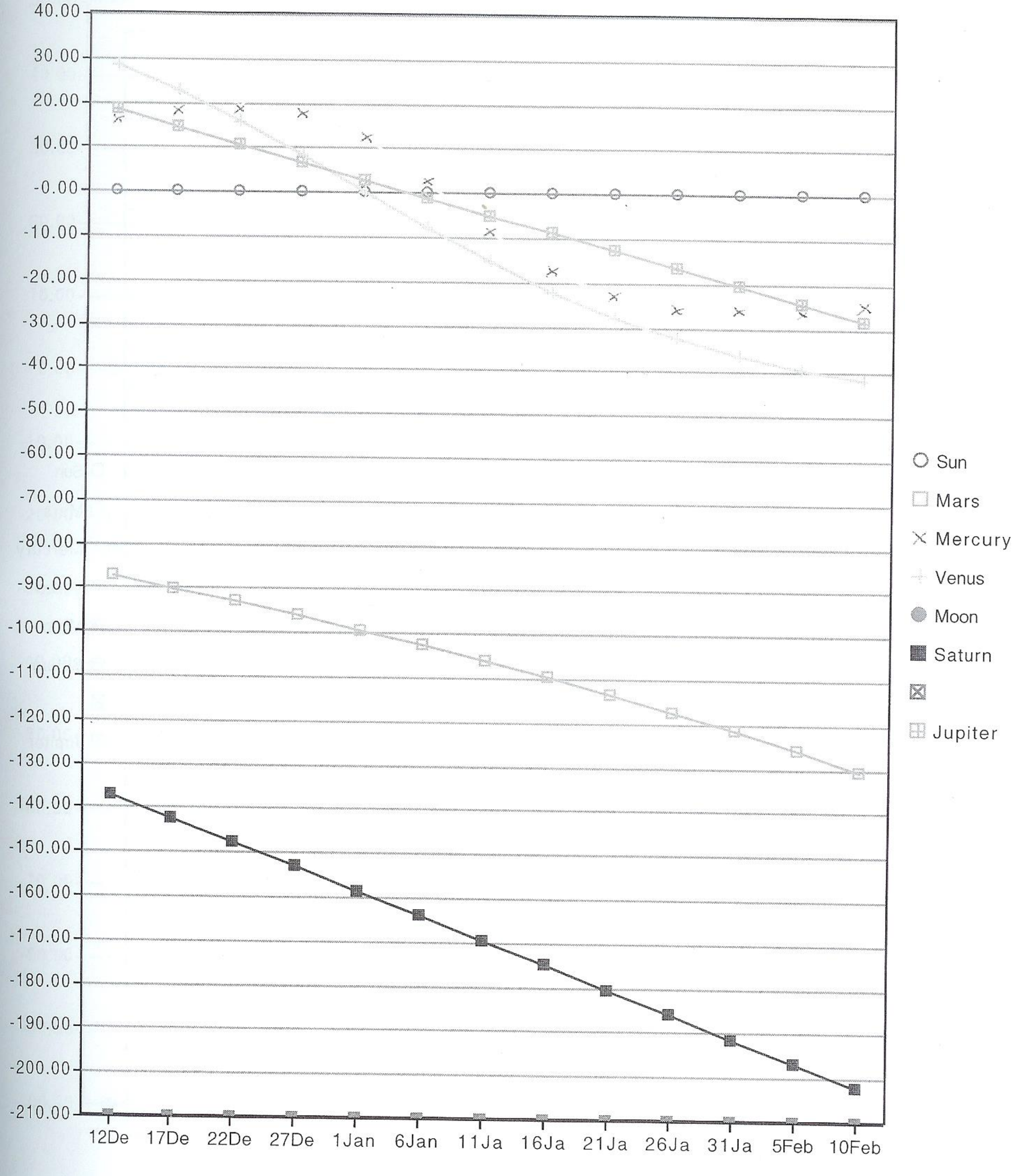
Cancuen Panel 1. Elongations from Sun.
Positive is Evening Star. Negative is Morning Star.
Venus and Mercury together leading the Sun

Gregorian	Tues 24 March	657 A.D.
Julian	21 March	657 A.D.
Mayan	9.11.4.9.2	9 Ik 5 Uo
Correlation Constant		584,285



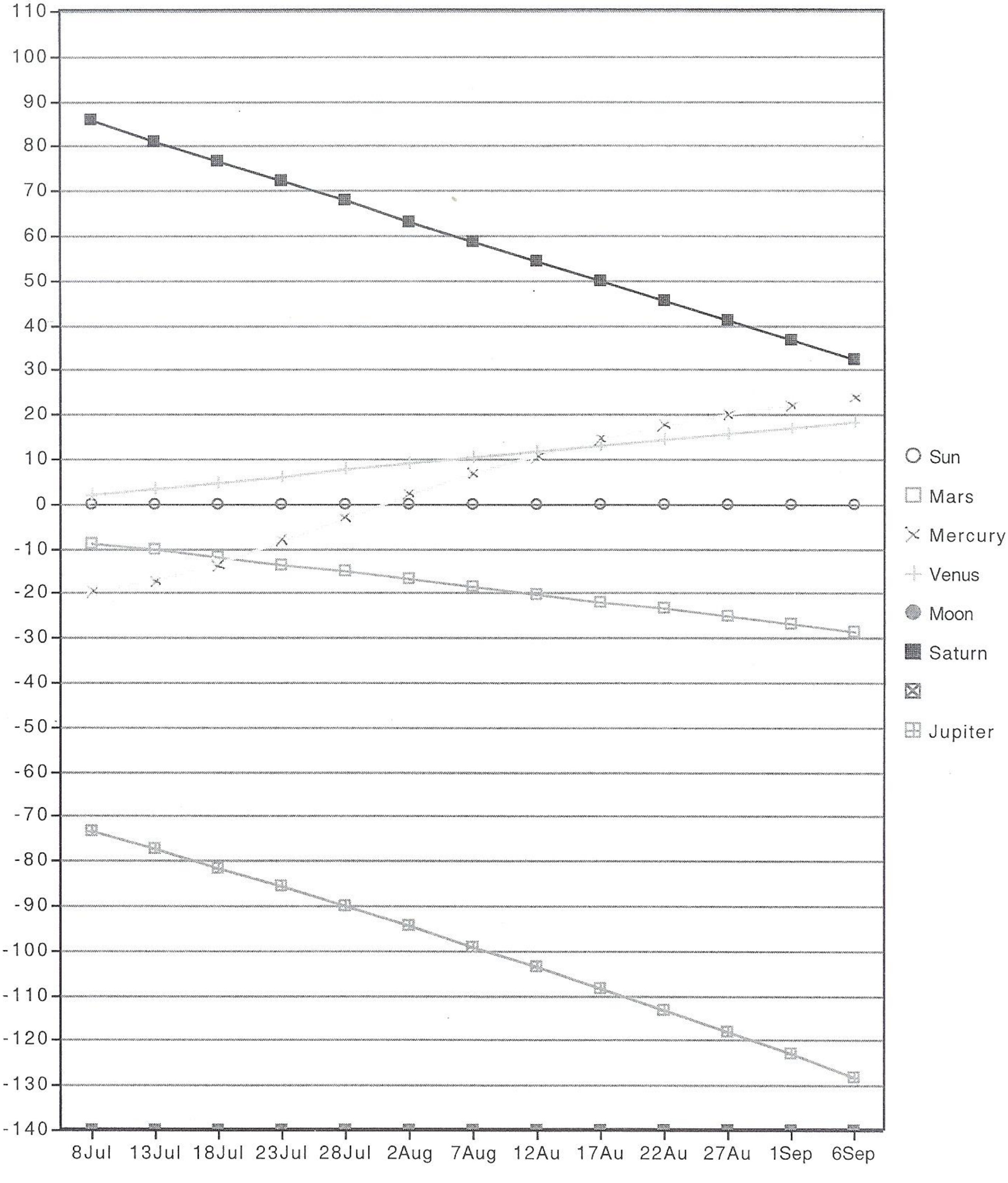
Cancuen Panel 1. Elongations from Sun.
Positive is Evening Star. Negative is Morning Star.
Venus passing through superior conjunction with the Sun.
Mercury at maximum elongation as evening star.

Gregorian	Sun 16 February	651 A.D.
Julian	13 February	651 A.D.
Mayan	9.10.18.5.14	4 Ix 12 Cumku
Correlation Constant		584,285



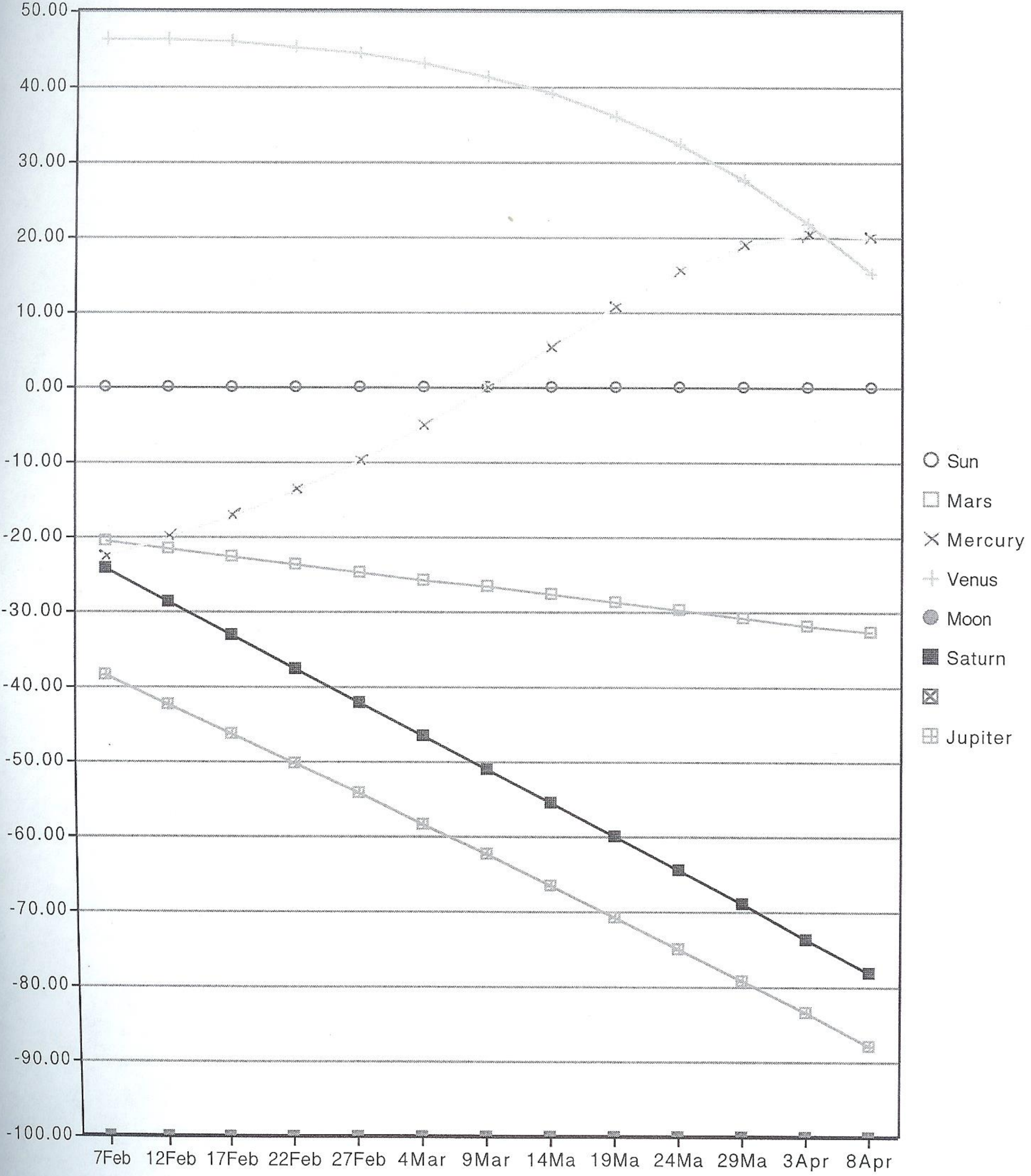
Cancuen Panel 1. Elongations from Sun.
Positive is Evening Star. Negative is Morning Star.
Venus, Mercury, Jupiter leading the Sun closely,
Jupiter just emerging as morning star.

Gregorian	Mon 11 January	799 A.D.
Julian	7 January	799 A.D.
Mayan	9.18.8.6.14	9 Ix 12 Cumku
Correlation Constant		584,285



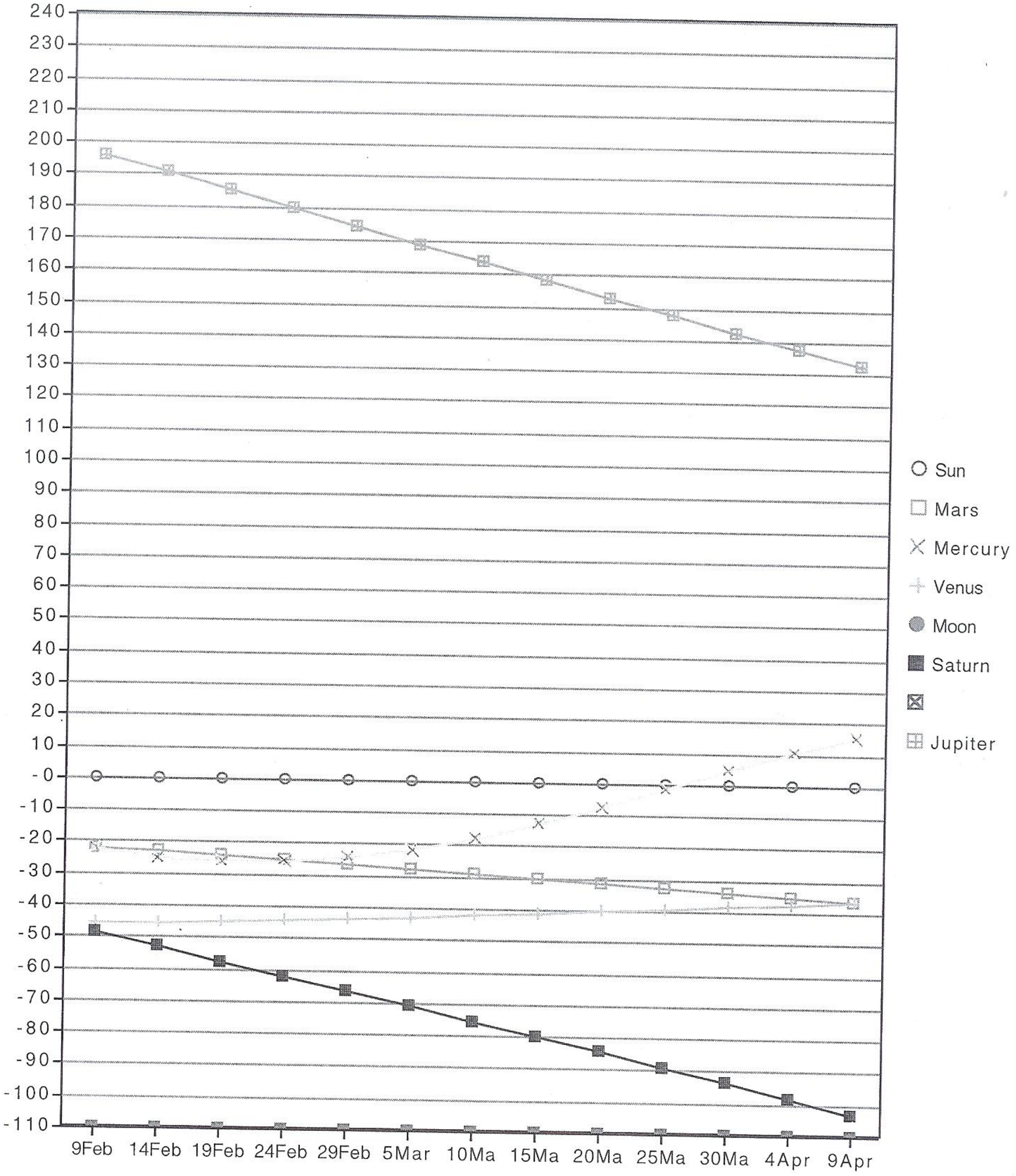
Palenque Temple of Cross. Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Birth of "Casper" /Ch'a-(hom?)/

Gregorian		Sun 7 August 422 A.D.
Julian		6 August 422 A.D.
Mayan	8.19.6.8.8	11 Lamat 6 Xul
Correlation Constant		584,283



Palenque Temple of Cross. Elongations from Sun.
Positive is Evening Star. Negative is Morning Star.
Accession of "Casper" /Ch'a-(hom?)/

Gregorian		Sun 9 March 431 A.D.
Julian		8 March 431 A.D.
Mayan	8.19.15.3.4	1 Kan 2 Kayab
Correlation Constant		584,283



Palenque Temple XIX ISIG date. Elongations from Sun. Positive is Evening Star. Negative is Morning Star. Seating of GI u-CHAB-jiiy Yax Naah Itzamnaj.

Gregorian	Thur 10 March	3309 B.C.
Julian	6 April	3309 B.C.
Mayan	*19.19.12.10.1.13.2	9 Ik 5 Mol
Correlation Constant		584,285